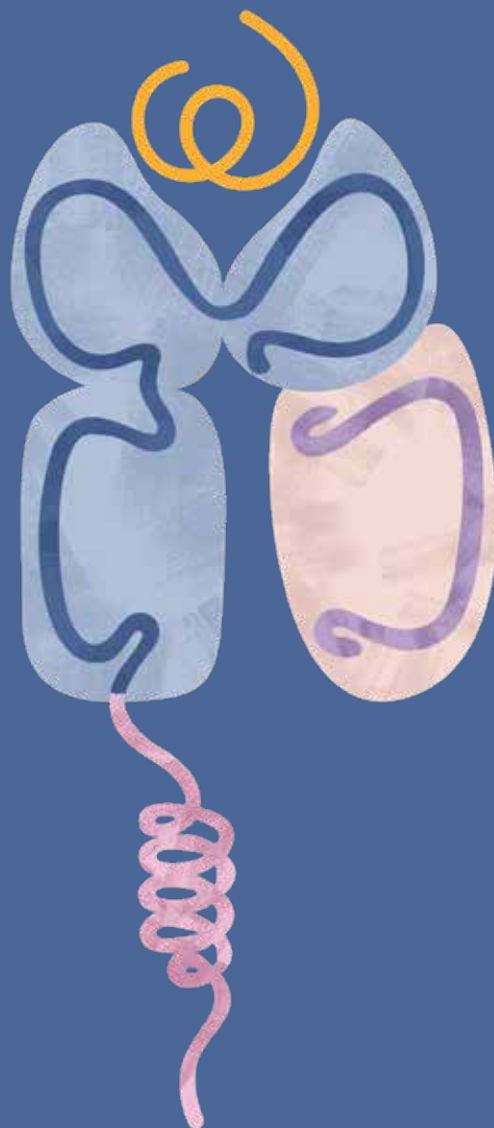


# MHC & TCR

MHC Monomers & Tetramers,  
Peptide-Ready MHCs, & Soluble  
TCR Expression



進階生物科技股份有限公司

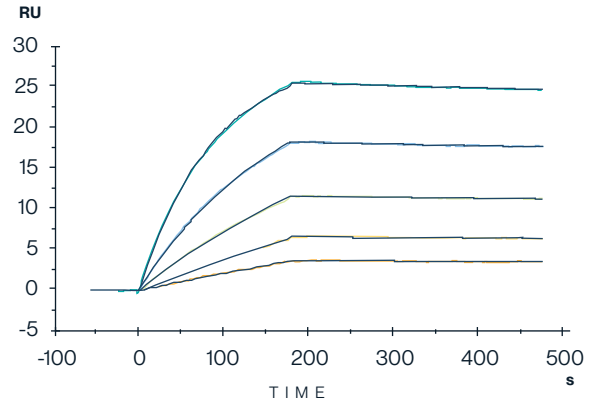
服務專線：0800-251302

60 Hickory Drive  
Waltham, MA 02451  
United States

# High Binding Affinity MHC Monomers & Tetramers

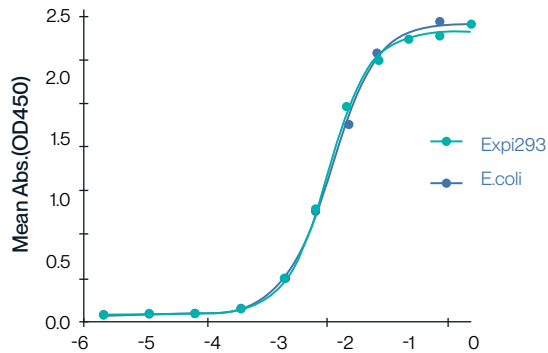
## MHC Tetramers with High Binding Affinity via SPR

(Right) Our Peptide-MHCs demonstrate high binding affinity to neoantigen antibodies. Here we demonstrate Anti-NY-ESO-1 (HLA-A\*02:01) Antibody, hFc Tag captured on CM5 Chip via Protein A binds Human NY-ESO-1 (HLA-A\*02:01) Tetramer, His Tag with an affinity constant of 0.09 nM as determined via SPR assay (Biacore T200).



## Human NY-ESO1 (HLA-A\*02:01) Tetramer, His Tag ELISA

0.5µg Human NY-ESO-1 (HLA-A\*02:01) Tetramer, His Tag Per Well



Log Anti-NY-ESO-1(HLA-A\*02:01) Antibody, hFc Tag Conc. (µg/ml)

## High Bioactivity with Mammalian and E. Coli Expression

(Left) KACTUS Peptide-MHCs demonstrate both quality and versatility. As verified by ELISA, the activity of NY-ESO-1 (HLA-A\*02:01) tetramer is comparable with both mammalian and E. coli expression.

## Engineering the Expression of Peptide-MHCs

### High-Performance MHCs using Mammalian Expression to Ensure Natural Folding & Complete Glycosylation.

We use HEK293 mammalian expression systems for our MHC products to ensure protein post-translational modifications including glycosylation and disulfide bond formation. Our proprietary design of MHC molecules reduces the chance of undesired displacement of peptides, allowing for more accurate and reliable detection of antigen-specific T cells and greater suitability for immunization.

MHC Monomers  
& Tetramers:



# 150+ Catalog Products

Mammalian & E. coli Expression

Greater than 95% Purity

Human, Mouse, & Cynomolgus

High bioactivity verified by ELISA & SPR

Fluorescent Labeling & Biotinylation

High Binding Affinity

High Specificity

Batch-to-Batch Consistency

Low Endotoxin

Various Alleles

## Available Neoantigens

AFP  
gp100  
HBV  
HPV16 E6

HPV17 E7  
KRAS  
KRAS (G12D)  
KRAS (G12V)

LMP2  
MAGE-A3  
MAGE-A4  
NY-ESO-1

p53  
P53 (R175H)  
PRAME

Survivin  
Survivin 2B  
WT-1

Looking for a different neoantigen? Contact our team at [sales@kactusbio.us](mailto:sales@kactusbio.us) to request a custom MHC.

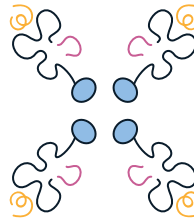
## Product Types



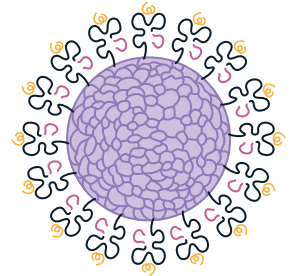
Peptide-ready MHC



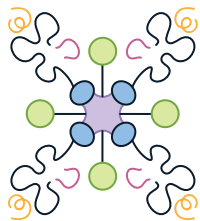
pMHC monomer



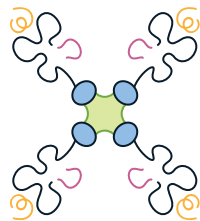
pMHC tetramer



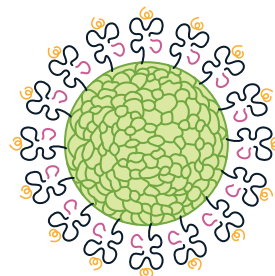
pMHC multimer on VLPs



Fluorescent pMHC tetramer (SA assembly)



Fluorescent pMHC tetramer (in vivo tetramerization)



Fluorescent pMHC multimer on VLPs



Chimeric pMHC



Heavy chain



Peptide



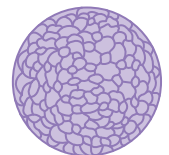
β2m



Biotin



Fluorophore



VLPs

# Custom MHC Production Services

## Choice of:

- MHC monomer
- MHC tetramer
- Chimeric peptide-MHC
- MHC virus-like particle
- Peptide-ready MHC
- Peptide loading services

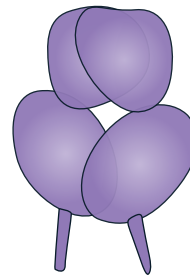
## Modifications:

- MHC class I or II allele
- Neoantigen sequence
- Biotinylation
- Fluorescent labeling (PE, FITC, APC, etc.)

*Receive a customized MHC in 6-8 weeks!*

# Soluble TCR Expression Services

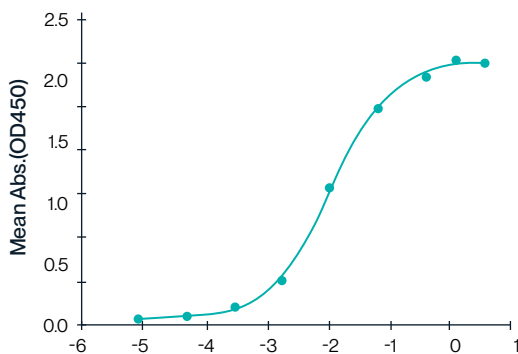
- Production of various formats of soluble TCRs, including scFv-TCR, TCR-His, etc.
- TCR engineering to optimize soluble TCR expression based on TCR modeling
- SPR analysis of soluble TCR & MHC interactions



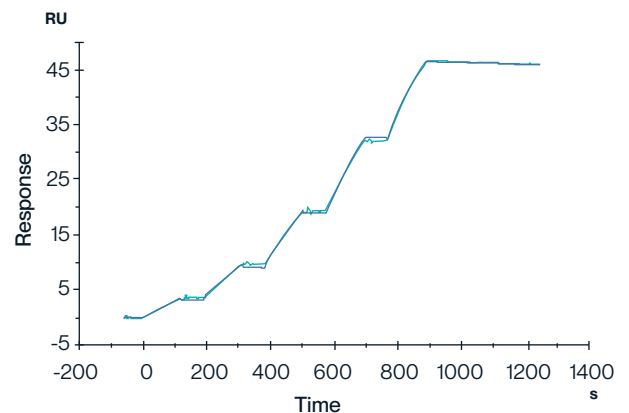
*Soluble TCR*

*Example Validation: Expressed gp100 TCR & Anti-CD3 Bispecific Fusion Protein binds to Human gp100 Peptide-MHC Monomers & Tetramers.*

**gp100 TCR & Anti-CD3 Bispecific Fusion, His Tag ELISA**  
0.05µg gp100 TCR & Anti-CD3 Bispecific Fusion, His Tag Per Well



**gp100 TCR & Anti-CD3 Bispecific Fusion, His Tag SPR**



*In ELISA (left) and SPR (right) analyses, gp100 TCR & Anti-CD3 Bispecific Fusion Protein can bind to both monomers and tetramers of Human GP100 (HLA-A\*02:01) complex, with an EC50 and affinity constant of 11.8 ng/mL and 0.196 nM, respectively.*

Soluble TCR  
Expression Services



# Peptide-Ready MHCs

Our functional Peptide-Ready MHCs products are a ready-to-use loading system for loading neoantigen peptides to form a new complete MHC peptide complex.

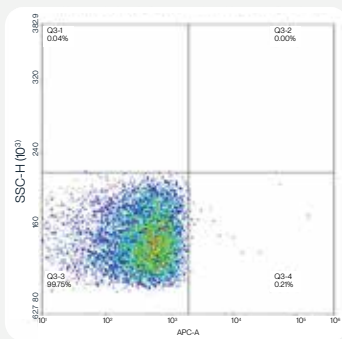
- Protocol for peptide-loading
- > 95% Purity
- Low Endotoxin
- Monomers & Tetramers
- Mammalian Expression

Contact [sales@kactusbio.us](mailto:sales@kactusbio.us) to request a custom Peptide-Ready MHC.

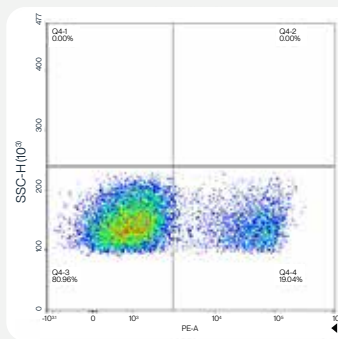
## Applications:

- High-throughput screening of specific neoantigen peptides
- TCR affinity studies and high-throughput characterization
- MHC binding studies
- Specific TCR or antigen-reactive T cell screening
- Peptide-MHC library construction
- Antigen epitope analysis and screening

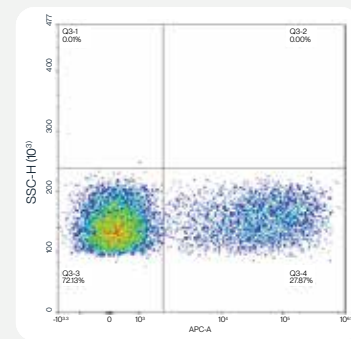
TCR cells + KACTUS APC-equivalent Human MHC Tetramer (negative control)



TCR cells + Competitor PE-labeled Human NY-ESO-1 (SLLMWITQC) & HLA-A\*02:01 & β2M Tetramer



TCR cells + KACTUS APC-equivalent Human NY-ESO-1 (SLLMWITQC) & HLA-A\*02:01 & β2M Tetramer



*Demonstrated via FACS assay, fluorescent-labeled Human Peptide-Ready HLA-A\*02:01&β2M Tetramer loaded with peptide (SLLMWITQC) can bind with HLA-A\*02:01&β2M&NY-ESO-1 TCR cells.*

## Peptide-Ready MHC Catalog List

Allele Subtype	Type	Expression	Species	Tag	Catalog #
HLA-A*11:01	Monomer	HEK293	Human	C-His-Avi	MHC-HM41R
HLA-A*11:01	Biotinylated Monomer	HEK293	Human	C-His-Avi	MHC-HM41RB
HLA-A*11:01	PE-Labeled Tetramer	HEK293	Human	C-His-Avi	MHC-HM41RTP
HLA-A*02:01	Monomer	HEK293	Human	C-His-Avi	MHC-HM43R
HLA-A*02:01	Biotinylated Monomer	HEK293	Human	C-His-Avi	MHC-HM43RB
HLA-A*02:01	APC-Equivalent Tetramer	HEK293	Human	C-His-Avi	MHC-HM43RTC
HLA-A*02:01	PE-Labeled Tetramer	HEK293	Human	C-His-Avi	MHC-HM43RTP
HLA-A*03:01	Monomer	HEK293	Human	C-His-Avi	MHC-HM44R
HLA-A*03:01	Biotinylated Monomer	HEK293	Human	C-His-Avi	MHC-HM44RB
HLA-A*03:01	PE-Labeled Tetramer	HEK293	Human	C-His-Avi	MHC-HM44RTP
HLA-A*24:02	Monomer	HEK293	Human	C-His-Avi	MHC-HM46R
HLA-A*24:02	Biotinylated Monomer	HEK293	Human	C-His-Avi	MHC-HM46RB
HLA-B*07:02	Monomer	HEK293	Human	C-His-Avi	MHC-HM47R
HLA-E*01:03	Monomer	HEK293	Human	C-His-Avi	MHC-HM42R
HLA-E*01:03	Biotinylated Monomer	HEK293	Human	C-His-Avi	MHC-HM42RB
HLA-G	Monomer	HEK293	Human	C-His-Avi	MHC-HM45R
HLA-G	Biotinylated Monomer	HEK293	Human	C-His-Avi	MHC-HM45RB

Peptide-Ready  
MHCs



Allele	Form	Antigen	Peptide	Species	Catalog #
HLA-A*01:01	Monomer	MAGE-A3	EVDPIGHLY	Human	MHC-HM427
HLA-A*01:01	Tetramer	MAGE-A3	EVDPIGHLY	Human	MHC-HM427T
HLA-A*01:01	Monomer	CT83	NTDNNLAVY	Human	MHC-HM426
HLA-A*01:01	Tetramer	CT83	NTDNNLAVY	Human	MHC-HM426T
HLA-A*01:01	Monomer	DSG3	YTDNWLAVY	Human	MHC-HM428
HLA-A*02:01	Monomer	PRAME	ALYVDSLFFL	Human	MHC-HM447
HLA-A*02:01	Monomer	LMP2	CLGGLLTMV	Human	MHC-HM411
HLA-A*02:01	Biotinylated Monomer	LMP2	CLGGLLTMV	Human	MHC-HM411B
HLA-A*02:01	Tetramer	LMP2	CLGGLLTMV	Human	MHC-HM411T
HLA-A*02:01	Monomer	LMP2	CLGGLLTMV	Human&Mouse	MHC-HM413
HLA-A*02:01	Tetramer	LMP2	CLGGLLTMV	Human&Mouse	MHC-HM413T
HLA-A*02:01	Monomer	MART-1	ELAGIGILTV	Human	MHC-HM435
HLA-A*02:01	Tetramer	MART-1	ELAGIGILTV	Human	MHC-HM435T
HLA-A*02:01	Monomer	HBV	FLLTRILTI	Human	MHC-HM409
HLA-A*02:01	Biotinylated Monomer	HBV	FLLTRILTI	Human	MHC-HM409B
HLA-A*02:01	Tetramer	HBV	FLLTRILTI	Human	MHC-HM409T
HLA-A*02:01	Biotinylated Monomer	AFP	FMNKFIYEI	Human	MHC-HM407B
HLA-A*02:01	Monomer	AFP	FMNKFIYEI	Human	MHC-HM407
HLA-A*02:01	Tetramer	AFP	FMNKFIYEI	Human	MHC-HM407T
HLA-A*02:01	PE-Labeled Tetramer	AFP	FMNKFIYEI	Human	MHC-HM407TP
HLA-A*02:01	Monomer	MAGE-A10	GLYDGMEHL	Human	MHC-HM459
HLA-A*02:01	Biotinylated Monomer	MAGE-A10	GLYDGMEHL	Human	MHC-HM459B
HLA-A*02:01	Tetramer	MAGE-A10	GLYDGMEHL	Human	MHC-HM459T
HLA-A*02:01	PE-Labeled Tetramer	MAGE-A10	GLYDGMEHL	Human	MHC-HM459TP
HLA-A*02:01	Monomer	MAGE-A4	GVYDGREHTV	Human	MHC-HM401
HLA-A*02:01	Biotinylated Monomer	MAGE-A4	GVYDGREHTV	Human	MHC-HM401B
HLA-A*02:01	Tetramer	MAGE-A4	GVYDGREHTV	Human	MHC-HM401T
HLA-A*02:01	PE-Labeled Tetramer	MAGE-A4	GVYDGREHTV	Human	MHC-HM401TP
HLA-A*02:01	Monomer	P53 R175H	HMTEVVRHC	Human	MHC-HM415
HLA-A*02:01	Biotinylated Monomer	P53 R175H	HMTEVVRHC	Human	MHC-HM415B
HLA-A*02:01	Tetramer	P53 R175H	HMTEVVRHC	Human	MHC-HM415T
HLA-A*02:01	PE-Labeled Tetramer	P53 R175H	HMTEVVRHC	Human	MHC-HM415TP
HLA-A*02:01	Monomer	P53 WT	HMTEVVRRC	Human	MHC-HM416
HLA-A*02:01	Biotinylated Monomer	P53 WT	HMTEVVRRC	Human	MHC-HM416B
HLA-A*02:01	Tetramer	P53 WT	HMTEVVRRC	Human	MHC-HM416T
HLA-A*02:01	PE-Labeled Tetramer	P53 WT	HMTEVVRRC	Human	MHC-HM416TP
HLA-A*02:01	Monomer	HPV 16 E6	KLPQLCTEL	Human	MHC-HM436
HLA-A*02:01	Tetramer	HPV 16 E6	KLPQLCTEL	Human	MHC-HM436T
HLA-A*02:01	Biotinylated Monomer	KRAS WT	KLVVVGAGGV	Human	MHC-HE008B
HLA-A*02:01	Biotinylated Monomer	KRAS G12V	KLVVVGAVGV	Human	MHC-HE007B
HLA-A*02:01	Biotinylated Monomer	MAGE-A2	KMVELVHFL	Human	MHC-HM460B
HLA-A*02:01	Biotinylated Monomer	MAGE-A3	KVAELVHFL	Human	MHC-HM461B
HLA-A*02:01	Monomer	MAGE-A4 or MAGE-A8	KVLEHVVRV	Human	MHC-HM437
HLA-A*02:01	Biotinylated Monomer	MAGE-A4 or MAGE-A8	KVLEHVVRV	Human	MHC-HM437B
HLA-A*02:01	Monomer	MAGE-A1	KVLEYVIKV	Human	MHC-HM445
HLA-A*02:01	Biotinylated Monomer	MAGE-A1	KVLEYVIKV	Human	MHC-HM445B
HLA-A*02:01	Tetramer	MAGE-A1	KVLEYVIKV	Human	MHC-HM445T
HLA-A*02:01	PE-Labeled Tetramer	MAGE-A1	KVLEYVIKV	Human	MHC-HM445TP
HLA-A*02:01	Monomer	Survivin	LMLGEFLKL	Human	MHC-HM412
HLA-A*02:01	Biotinylated Monomer	Survivin	LMLGEFLKL	Human	MHC-HM412B
HLA-A*02:01	Tetramer	Survivin	LMLGEFLKL	Human	MHC-HM412T
HLA-A*02:01	Monomer	CMV pp65	NLVPMVATV	Human	MHC-HM458
HLA-A*02:01	Biotinylated Monomer	CMV pp65	NLVPMVATV	Human	MHC-HM458B
HLA-A*02:01	Tetramer	CMV pp65	NLVPMVATV	Human	MHC-HM458T
HLA-A*02:01	Monomer	AFP	PLFQVPEPV	Human	MHC-HM408
HLA-A*02:01	Biotinylated Monomer	AFP	PLFQVPEPV	Human	MHC-HM408B
HLA-A*02:01	Tetramer	AFP	PLFQVPEPV	Human	MHC-HM408T
HLA-A*02:01	Monomer	WT-1	RMFPNAPYL	Human&Mouse	MHC-HM414

Allele	Form	Antigen	Peptide	Species	Catalog #
HLA-A*02:01	Tetramer	WT-1	RMFPNAPYL	Human&Mouse	MHC-HM414T
HLA-A*02:01	Monomer	WT-1	RMFPNAPYL	Human	MHC-HM431
HLA-A*02:01	Biotinylated Monomer	WT-1	RMFPNAPYL	Human	MHC-HM431B
HLA-A*02:01	Tetramer	WT-1	RMFPNAPYL	Human	MHC-HM431T
HLA-A*02:01	Monomer	NY-ESO-1	SLLMWITQC	Human	MHC-HE446
HLA-A*02:01	Tetramer	NY-ESO-1	SLLMWITQC	Human	MHC-HE446T
HLA-A*02:01	Monomer	NY-ESO-1	SLLMWITQC	Human	MHC-HM405
HLA-A*02:01	Biotinylated Monomer	NY-ESO-1	SLLMWITQC	Human	MHC-HM405B
HLA-A*02:01	Tetramer	NY-ESO-1	SLLMWITQC	Human	MHC-HM405T
HLA-A*02:01	PE-Labeled Tetramer	NY-ESO-1	SLLMWITQC	Human	MHC-HM405TP
HLA-A*02:01	Monomer	NY-ESO-1	SLLMWITQV	Human	MHC-HM40N
HLA-A*02:01	Biotinylated Monomer	NY-ESO-1	SLLMWITQV	Human	MHC-HM40NB
HLA-A*02:01	Tetramer	NY-ESO-1	SLLMWITQV	Human	MHC-HM40NT
HLA-A*02:01	Monomer	PRAME	SLLQHLIGL	Human	MHC-HM443
HLA-A*02:01	Biotinylated Monomer	PRAME	SLLQHLIGL	Human	MHC-HM443B
HLA-A*02:01	Tetramer	PRAME	SLLQHLIGL	Human	MHC-HM443T
HLA-A*02:01	PE-Labeled Tetramer	PRAME	SLLQHLIGL	Human	MHC-HM443TP
HLA-A*02:01	Monomer	GP100	YLEPGPVTA	Human	MHC-HM402
HLA-A*02:01	Biotinylated Monomer	GP100	YLEPGPVTA	Human	MHC-HM402B
HLA-A*02:01	Tetramer	GP100	YLEPGPVTA	Human	MHC-HM402T
HLA-A*02:01	Tetramer	HPV16 E7	YMLDLQPET	Human	MHC-HM24MT
HLA-A*02:01	Monomer	HPV16 E7	YMLDLQPET	Human	MHC-HM424
HLA-A*02:01	Biotinylated Monomer	HPV16 E7	YMLDLQPET	Human	MHC-HM424B
HLA-A*02:03	Monomer	AFP	FMNKFIYEI	Human	MHC-HM432
HLA-A*02:03	Biotinylated Monomer	AFP	FMNKFIYEI	Human	MHC-HM432B
HLA-A*02:03	Tetramer	AFP	FMNKFIYEI	Human	MHC-HM432T
HLA-A*02:03	Tetramer	AFP	FMNKFIYEI	Human	MHC-HM432TP
HLA-A*03:01	Monomer	KRAS G12V	VVGAVGVGK	Human	MHC-HM456
HLA-A*03:01	Biotinylated Monomer	KRAS G12V	VVGAVGVGK	Human	MHC-HM456B
HLA-A*03:01	Tetramer	KRAS G12V	VVGAVGVGK	Human	MHC-HM456TP
HLA-A*03:01	Monomer	KRAS WT	VVGAGGVGK	Human	MHC-HM423
HLA-A*03:01	Biotinylated Monomer	KRAS WT	VVGAGGVGK	Human	MHC-HM423B
HLA-A*03:01	Tetramer	KRAS WT	VVGAGGVGK	Human	MHC-HM423T
HLA-A*03:01	Monomer	KRAS G12V	VVGAVGVGK	Human	MHC-HM418
HLA-A*03:01	Biotinylated Monomer	KRAS G12V	VVGAVGVGK	Human	MHC-HM418B
HLA-A*03:01	Tetramer	KRAS G12V	VVGAVGVGK	Human	MHC-HM418T
HLA-A*03:01	Tetramer	KRAS G12V	VVGAVGVGK	Human	MHC-HM418TP
HLA-A*11:01	Monomer	LMP2	SSCSCPLTK	Human	MHC-HM410
HLA-A*11:01	Biotinylated Monomer	LMP2	SSCSCPLTK	Human	MHC-HM410B
HLA-A*11:01	Tetramer	LMP2	SSCSCPLTK	Human	MHC-HM410T
HLA-A*11:01	Monomer	KRAS G12D	VVGADGVGK	Human	MHC-HM455
HLA-A*11:01	Biotinylated Monomer	KRAS G12D	VVGADGVGK	Human	MHC-HM455B
HLA-A*11:01	Biotinylated Monomer	KRAS WT	VVGAGGVGK	Human	MHC-HE002B
HLA-A*11:01	Monomer	KRAS G12V	VVGAVGVGK	Human	MHC-HE006
HLA-A*11:01	Biotinylated Monomer	KRAS G12V	VVGAVGVGK	Human	MHC-HE006B
HLA-A*11:01	Monomer	KRAS G12V	VVGAVGVGK	Human	MHC-HM422
HLA-A*11:01	Biotinylated Monomer	KRAS G12V	VVGAVGVGK	Human	MHC-HM422B
HLA-A*11:01	Monomer	KRAS G12A	VVGAAGVGK	Human	MHC-HM441
HLA-A*11:01	Biotinylated Monomer	KRAS G12A	VVGAAGVGK	Human	MHC-HM441B
HLA-A*11:01	Tetramer	KRAS G12A	VVGAAGVGK	Human	MHC-HM441T
HLA-A*11:01	Monomer	KRAS G12C	VVGACGVGK	Human	MHC-HM439
HLA-A*11:01	Biotinylated Monomer	KRAS G12C	VVGACGVGK	Human	MHC-HM439B
HLA-A*11:01	Tetramer	KRAS G12C	VVGACGVGK	Human	MHC-HM439T

Allele	Form	Antigen	Peptide	Species	Catalog #
HLA-A*11:01	Monomer	KRAS G12D	VVVGADGVGK	Human	MHC-HM420
HLA-A*11:01	Biotinylated Monomer	KRAS G12D	VVVGADGVGK	Human	MHC-HM420B
HLA-A*11:01	Tetramer	KRAS G12D	VVVGADGVGK	Human	MHC-HM420T
HLA-A*11:01	Tetramer	KRAS G12D	VVVGADGVGK	Human	MHC-HM420TP
HLA-A*11:01	Monomer	KRAS G12D	VVVGADGVGK	Human	MHC-HM454
HLA-A*11:01	Biotinylated Monomer	KRAS G12D	VVVGADGVGK	Human	MHC-HM454B
HLA-A*11:01	Monomer	KRAS WT	VVVGAGGVGK	Human	MHC-HE001
HLA-A*11:01	Biotinylated Monomer	KRAS WT	VVVGAGGVGK	Human	MHC-HE001B
HLA-A*11:01	Monomer	KRAS WT	VVVGAGGVGK	Human	MHC-HM429
HLA-A*11:01	Biotinylated Monomer	KRAS WT	VVVGAGGVGK	Human	MHC-HM429B
HLA-A*11:01	Monomer	KRAS WT	VVVGAGGVGK	Human	MHC-HM429F
HLA-A*11:01	Tetramer	KRAS WT	VVVGAGGVGK	Human	MHC-HM429T
HLA-A*11:01	Tetramer	KRAS WT	VVVGAGGVGK	Human	MHC-HM429TP
HLA-A*11:01	Monomer	KRAS G12R	VVVGARGVGK	Human	MHC-HM440
HLA-A*11:01	Biotinylated Monomer	KRAS G12R	VVVGARGVGK	Human	MHC-HM440B
HLA-A*11:01	Tetramer	KRAS G12R	VVVGARGVGK	Human	MHC-HM440T
HLA-A*11:01	Monomer	KRAS G12S	VVVGASGVGK	Human	MHC-HM442
HLA-A*11:01	Biotinylated Monomer	KRAS G12S	VVVGASGVGK	Human	MHC-HM442B
HLA-A*11:01	Tetramer	KRAS G12S	VVVGASGVGK	Human	MHC-HM442T
HLA-A*11:01	Monomer	KRAS G12V	VVVGAVGVGK	Human	MHC-HE005
HLA-A*11:01	Biotinylated Monomer	KRAS G12V	VVVGAVGVGK	Human	MHC-HE005B
HLA-A*11:01	Monomer	KRAS G12V	VVVGAVGVGK	Human	MHC-HM421
HLA-A*11:01	Biotinylated Monomer	KRAS G12V	VVVGAVGVGK	Human	MHC-HM421B
HLA-A*11:01	Monomer	KRAS G12V	VVVGAVGVGK	Human	MHC-HM421F
HLA-A*11:01	Tetramer	KRAS G12V	VVVGAVGVGK	Human	MHC-HM421T
HLA-A*11:01	Tetramer	KRAS G12V	VVVGAVGVGK	Human	MHC-HM421TP
HLA-A*24:02	Monomer	Survivin 2B	AYACNTSTL	Human	MHC-HM430
HLA-A*24:02	Biotinylated Monomer	Survivin 2B	AYACNTSTL	Human	MHC-HM430B
HLA-A*24:02	Tetramer	Survivin 2B	AYACNTSTL	Human	MHC-HM430T
HLA-A*24:02	Monomer	MAGE-A3	IMPKAGLLI	Human	MHC-HM434
HLA-A*24:02	Biotinylated Monomer	MAGE-A3	IMPKAGLLI	Human	MHC-HM434B
HLA-A*24:02	Tetramer	MAGE-A3	IMPKAGLLI	Human	MHC-HM434T
HLA-A*24:02	Monomer	GP100 Intron 4	VYFFLPDHL	Human	MHC-HM433
HLA-A*24:02	Biotinylated Monomer	GP100 Intron 4	VYFFLPDHL	Human	MHC-HM433B
HLA-B*15:01	Monomer	SARS-CoV-2 epitope	NQKLIANQF	Human	MHC-HM448
HLA-B*15:01	Biotinylated Monomer	SARS-CoV-2 epitope	NQKLIANQF	Human	MHC-HM448B
HLA-C 03:04	Monomer	KRAS G12D	GADGVGKSAL	Human	MHC-HM438
HLA-C 03:04	Biotinylated Monomer	KRAS G12D	GADGVGKSAL	Human	MHC-HM438B
HLA-C 03:04	Tetramer	KRAS G12D	GADGVGKSAL	Human	MHC-HM438T
HLA-E*01:03	Monomer	-	VMAPKTLVL	Human	MHC-HM40C
HLA-E*01:03	Monomer	-	VMAPRTLVL	Human	MHC-HM406
HLA-E*01:03	Biotinylated Monomer	-	VMAPRTLVL	Human	MHC-HM406B
HLA-E*01:03	Tetramer	-	VMAPRTLVL	Human	MHC-HM406T
HLA-E*01:03	Biotinylated Tetramer	-	VMAPRTLVL	Human	MHC-HM406TB
HLA-G	Monomer	-	RIIPRHLQL	Cynomolgus	HLG-CM41C
HLA-G	Biotinylated Monomer	-	RIIPRHLQL	Cynomolgus	HLG-CM41CB
HLA-G	Tetramer	-	RIIPRHLQL	Cynomolgus	HLG-CM41CT
HLA-G	Monomer	-	RIIPRHLQL	Human	HLG-HM41C
HLA-G	Biotinylated Monomer	-	RIIPRHLQL	Human	HLG-HM41CB
HLA-G	Tetramer	-	RIIPRHLQL	Human	HLG-HM41CT
HLA-G	Biotinylated Tetramer	-	RIIPRHLQL	Human	HLG-HM41CTB
HLA-G	PE-Labeled Tetramer	-	RIIPRHLQL	Human	HLG-HM41CTP
HLA-G	Monomer	-	RIIPRHLQL	Rhesus macaque	HLG-RM41C
HLA-G	Tetramer	-	RIIPRHLQL	Rhesus macaque	HLG-RM41CT
HLA-G	-	-	-	Human	HLG-HE41F
H-2K (b)	Monomer	OVA	SIINFEKL	Mouse	MHC-MM453
Qa-1b	Monomer	Qdm	AMAPRTLTL	Mouse	MHC-MM452