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Datasheet for ABIN7273161
HLA-A*02:01 protein (SBP Tag)

Overview

Quantity:	100 µL
Target:	HLA-A*02:01
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	SBP Tag
Application:	Blocking Peptide (BP), Control Peptide (CP), ELISA, Neutralization (Neut)

Product Details

Purpose:	The product is HLA-A*02:01 complexed with β2-microglobulin (b2m)
Sequence:	<p>heavy chain: GSHSMRYFFT SVSRPGRGEP RFIAVGYVDD TQFVRFSDA ASQRMEPRAP WIEQEGPEYW DGETRQVKAH SQTHRVDLGT LRGYYNQSEA GSHTVQRMYG CDVGSDWRFL RGYHQYAYDG KDYIALKEDL RSWTAADMAA QTTKHKWEAA HVAEQLRAYL EGTCVEWLRR YLENGKETLQ RTDAPKTHMT HHAUSDHEAT LRCWALSFYP AEITLTWQRD GEDQTQDTEL VETRPAGDGT FQKWAAVVVP SGQEQRYTCH VQHEGLPKPL TLRWEPSSQP TIPI</p> <p>light chain: IQRTPKIQVY SRHPAENGKS NFLNCYVSGF HPSDIEVDLL KNGERIEKVE HSDLFSKDW SFYLLYYTEF TPTEKDEYAC RVNHVTLTSLQ KIVKWDRDM</p> <p>Sequences without tags. Tag location is at the discretion of the manufacturer.</p>
Specificity:	<p>HLA-A*02:01 complexed with b2m, P04439 / P61769</p> <p>HLA-A2 is prevalent worldwide and one of the most studied HLA class I antigens. Allotype HLA-A*02:01 binds peptides derived from different viruses such as EBV, HBV, HCV, HPV, and HIV.</p>
Characteristics:	HLAs are produced in mammalian cell cultures as recombinant, truncated, soluble antigens, in

Product Details

complex with β 2-microglobulin (HLA class I). As part of our quality control, all HLA are analyzed for purity by gel electrophoresis, concentration is determined by ELISA (0.5 mg/ml) and their functionality is verified with a specific antiserum.

Purification:	Chromatography
Purity:	> 80 %
Endotoxin Level:	Endotoxins have not been removed

Target Details

Target:	HLA-A*02:01
Background:	Human Leukozyte Antigen, human Antigen-presenting major histocompatibility complex class I (MHC I) molecule. Expressed on all cells, displays peptides to CD8-positive T cells. Involved in cellular immune response.
Molecular Weight:	approx. 50 kDa (38 kDa heavy chain + 12 kDa β 2m)
UniProt:	P04439

Application Details

Application Notes:	ELISA: 1 - 100 ng/mL
Comment:	sandwich ELISA, direct ELISA, bead ELISA, reactive with antibodies W6/32 and BBM.1 and specific antiserum, B cell ELI Spot (predicted), in vitro memory B cell stimulation (predicted), HLA competition assay (predicted), control in various assays (predicted)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	TRIS based buffer, pH 8.0, Sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

Expiry Date: 6 months