Datasheet for ABIN7504348

MHC, Class I Protein (Monomer) (Ovalbumin)

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Overview

Quantity:	100 µg
Target:	MHC, Class I
Protein Characteristics:	Monomer
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MHC, Class I protein is labelled with Ovalbumin.

Product Details

Purpose:	Mouse H-2K (b) & B2M & OVA (SIINFEKL) Monomer Protein
Sequence:	His24-Pro297, Ile21-Met119 (B2M) and SIINFEKL peptide
Specificity:	Uni-Prot: P01901 (H-2K (B)), P01887 (B2M), SIINFEKL
Characteristics:	Recombinant Mouse H-2K(b) & B2M & OVA (SIINFEKL) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains His24-Pro297, Ile21-Met119(B2M) and SIINFEKL peptide.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	MHC, Class I
Alternative Name:	H-2K (MHC, Class I Products)
Background:	Ovalbumin (OVA) has been historically a popular source of such antigens, since OVA can induce both humoral and cellular immune responses based on well-characterised peptide epitopes. The OVA257-264 octapeptide was one of the frst OVA epitopes to be characterised, it has an amino acid sequence SIINFEKL, which is recognised by cytotoxic T lymphocytes. SIINFEKL forms fbrillar assemblies similar to other peptide hydrogels. Te immunoactive properties of this peptide can therefore be related to its self-assembling nature.
Molecular Weight:	50.20 kDa. Due to glycosylation, the protein migrates to 52-70 kDa based on Tris-Bis PAGE result.
UniProt:	P01901

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months