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Datasheet for ABIN7274200

CD25 Protein (AA 22-213) (His-Avi Tag,Biotin)

4 Images

Overview

Quantity:	100 µg
Target:	CD25 (IL2RA)
Protein Characteristics:	AA 22-213
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD25 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Human IL-2 R alpha/CD25 Protein
Sequence:	Glu22-Cys213
Characteristics:	Recombinant Biotinylated Human IL-2 R alpha/CD25 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Glu22-Cys213.
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.
Biological Activity Comment:	Immobilized Anti-CD25 Antibody, hFc Tag at 0.2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-2 R alpha, His Tag with the EC50 of 11.9ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	CD25 (IL2RA)
Alternative Name:	IL-2 R alpha (IL2RA Products)
Background:	Human IL-2 receptor alpha (IL-2 R alpha), also known as Tac antigen and as CD25, was initially identified as a 55 kDa membrane glycoprotein that is capable of binding IL-2. Receptor for interleukin-2. The receptor is involved in the regulation of immune tolerance by controlling regulatory T cells (TREGs) activity. TREGs suppress the activation and expansion of autoreactive T-cells.
Molecular Weight:	24.6 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
UniProt:	P01589
Pathways:	JAK-STAT Signaling , Growth Factor Binding , Activated T Cell Proliferation

Application Details

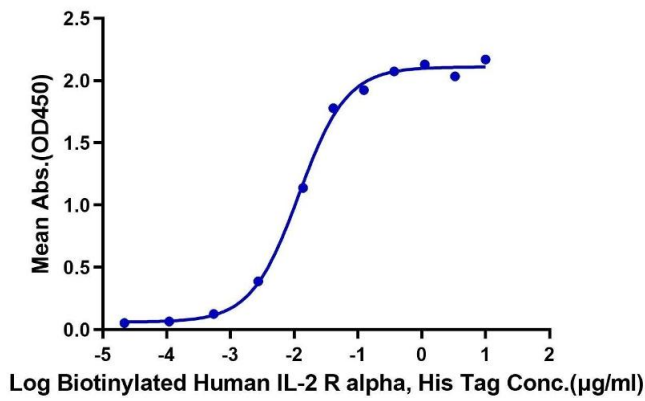
Restrictions:	For Research Use only
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Handling

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

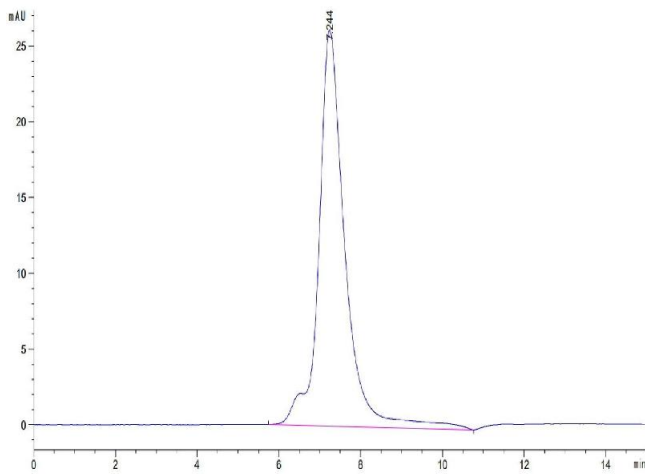
Biotinylated Human IL-2 R alpha, His Tag ELISA

0.02µg Anti-CD25 Antibody, hFc Tag Per Well



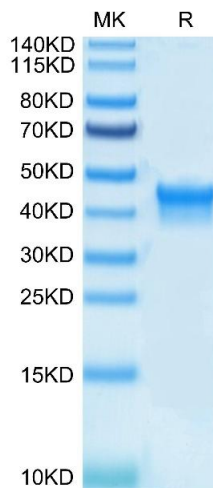
ELISA

Image 1. Immobilized Anti-CD25 Antibody, hFc Tag at 0.2 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human IL-2 R alpha, His Tag with the EC50 of 11.9 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Biotinylated Human IL-2 R alpha is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Biotinylated Human IL-2 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274200.