

Datasheet for ABIN7274002

BTN3A1 Protein (AA 1-219) (His-Avi Tag,Biotin)

3 Images

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Overview

Quantity:	100 µg
Target:	BTN3A1
Protein Characteristics:	AA 1-219
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BTN3A1 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Cynomolgus BTN3A1/CD277 Protein
Sequence:	Gln1-Trp219
Characteristics:	Recombinant Biotinylated Cynomolgus BTN3A1/CD277 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Gln1-Trp219.
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-BTN3A1 Antibody, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Cynomolgus BTN3A1, His Tag with the EC50 of 5.4ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	BTN3A1
Alternative Name:	BTN3A1 (BTN3A1 Products)
Background:	The three butyrophilin BTN3A molecules, BTN3A1, BTN3A2, and BTN3A3, are members of the B7/butyrophilin-like group of Ig superfamily receptors, which modulate the function of T cells. BTN3A1 controls activation of human V γ 9/V δ 2 T cells by direct or indirect presentation of self and nonself phosphoantigens (pAg).
Molecular Weight:	26.5 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Tris-Bis PAGE result.
UniProt:	A0A330KWZ1
Pathways:	Activated T Cell Proliferation

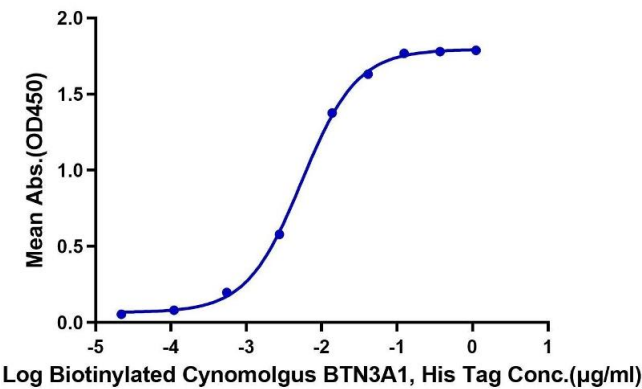
Application Details

Restrictions:	For Research Use only
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Handling

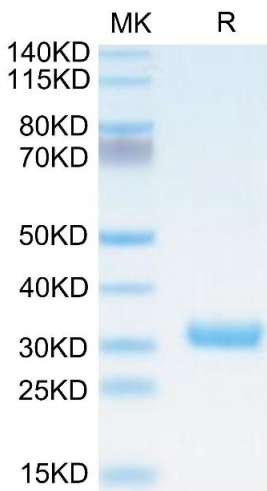
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant 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 Cynomolgus BTN3A1, His Tag ELISA
0.1µg Anti-BTN3A1 Antibody, hFc Tag Per Well



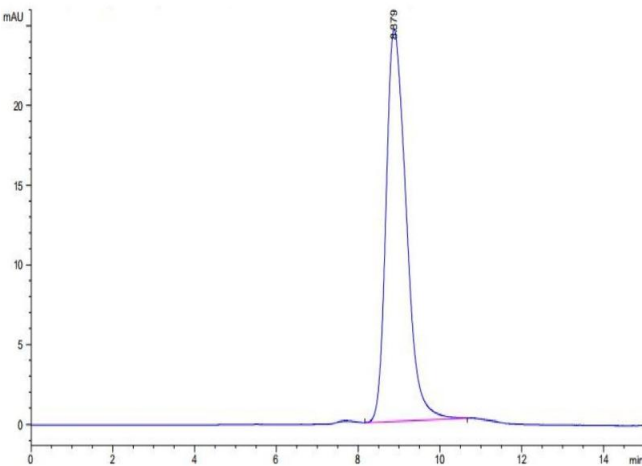
ELISA

Image 1. Immobilized Anti-BTN3A1 Antibody, hFc Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Cynomolgus BTN3A1, His Tag with the EC50 of 5.4 ng/mL determined by ELISA.



SDS-PAGE

Image 2. Biotinylated Cynomolgus BTN3A1/CD277 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Biotinylated Cynomolgus BTN3A1/CD277 is greater than 95 % as determined by SEC-HPLC.