

Datasheet for ABIN7274006

BTN3A1 Protein (AA 30-254) (Fc Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	BTN3A1
Protein Characteristics:	AA 30-254
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BTN3A1 protein is labelled with Fc Tag.

Product Details

Purpose:	Human BTN3A1/CD277 Protein
Sequence:	Gln30-Gly254
Characteristics:	Recombinant Human BTN3A1/CD277 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln30-Gly254.
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 Human BTN3A1, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-BTN3A1 Antibody, hFc Tag with the EC50 of 20.3ng/ml determined by ELISA. See testing image for detail.

Target Details

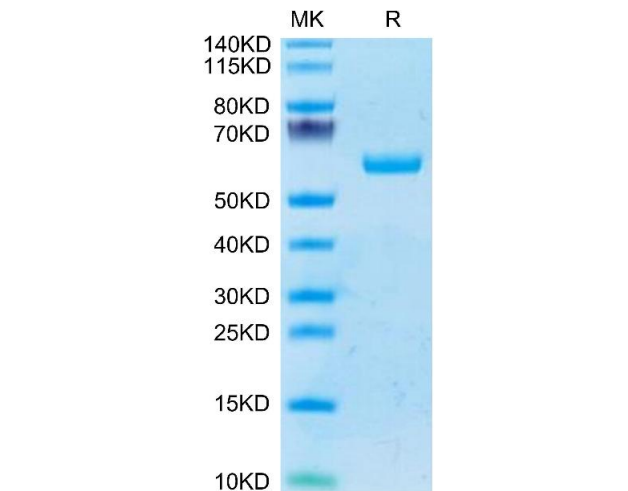
Target:	BTN3A1
Alternative Name:	BTN3A1 (BTN3A1 Products)
Background:	The three butyrophilin BTN3A molecules, BTN3A1, BTN3A2, and BTN3A3, are members of the B7/butyrophilin-like group of Ig superfamily receptors, which modulate the function of T cells. BTN3A1 controls activation of human V γ 9/V δ 2 T cells by direct or indirect presentation of self and nonself phosphoantigens (pAg).
Molecular Weight:	50.9 kDa. Due to glycosylation, the protein migrates to 58-63 kDa based on Tris-Bis PAGE result.
Pathways:	Activated T Cell Proliferation

Application Details

Restrictions:	For Research Use only
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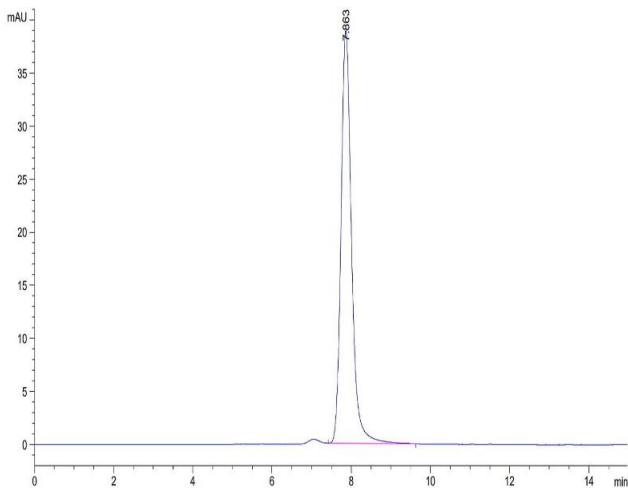
Handling

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



SDS-PAGE

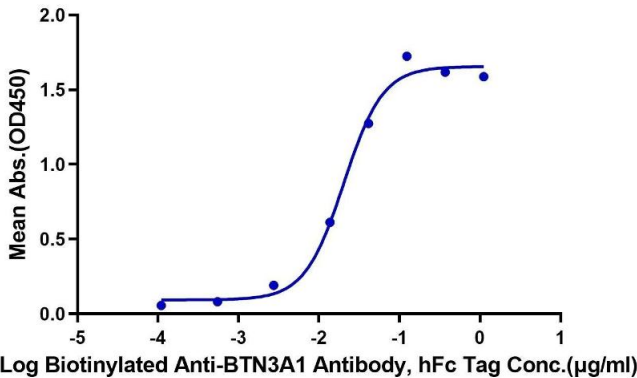
Image 1. Human BTN3A1/CD277 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human BTN3A1/CD277 is greater than 95 % as determined by SEC-HPLC.

Human BTN3A1, hFc Tag ELISA
0.1µg Human BTN3A1, hFc Tag Per Well



ELISA

Image 3. Immobilized Human BTN3A1, hFc Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-BTN3A1 Antibody, hFc Tag with the EC50 of 20.3 ng/mL determined by ELISA.