

Datasheet for ABIN7273993
BST2 Protein (AA 49-161) (Fc Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	BST2
Protein Characteristics:	AA 49-161
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BST2 protein is labelled with Fc Tag.

Product Details

Purpose:	Human BST2 Protein
Sequence:	Asn49-Ser161
Characteristics:	Recombinant Human BST2 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Asn49-Ser161.
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 BST2, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-BST2 Antibody, hFc Tag with the EC50 of 60.4ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	BST2
Alternative Name:	BST2 (BST2 Products)
Background:	Interferon-induced BST2 (bone marrow stromal cell antigen 2) inhibits viral replication by tethering enveloped virions to the cell surface to restrict viral release and by inducing the NFkB-dependent antiviral immune response. BST2 expression was significantly increased during porcine epidemic diarrhea virus (PEDV) infection of Vero cells by IRF1 targeting its promoter. Both the BST2 and N protein interacted with the E3 ubiquitin ligase MARCHF8/MARCH8 and the cargo receptor.
Molecular Weight:	40 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Tris-Bis PAGE result.
Pathways:	Regulation of Leukocyte Mediated Immunity , Production of Molecular Mediator of Immune Response

Application Details

Restrictions:	For Research Use only
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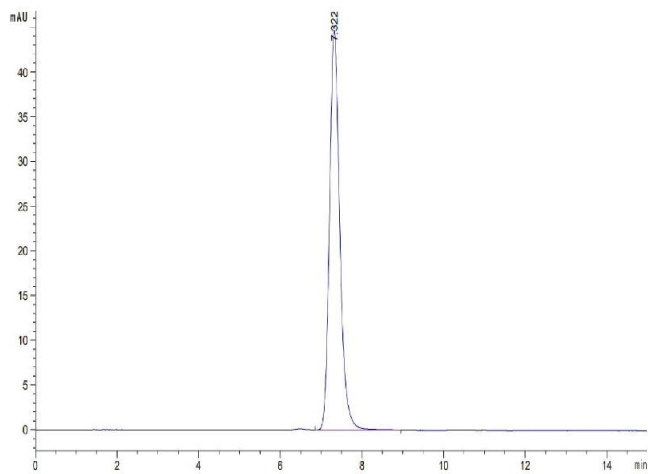
Handling

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



SDS-PAGE

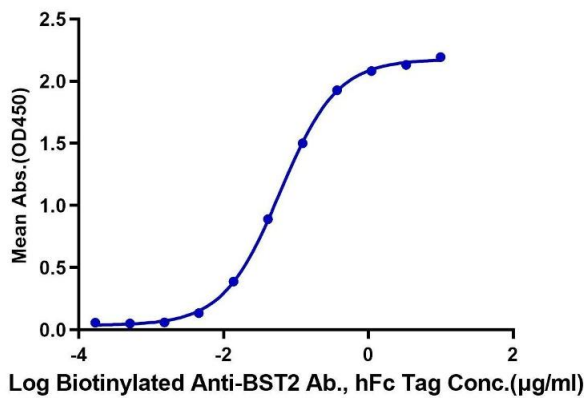
Image 1. Human BST2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human BST2 is greater than 95 % as determined by SEC-HPLC.

Human BST2, hFc Tag ELISA
0.05µg Human BST2, hFc Tag Per Well



ELISA

Image 3. Immobilized Human BST2, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-BST2 Antibody, hFc Tag with the EC50 of 60.4 ng/mL determined by ELISA.