

Human BST2 Protein

Cat. No. BST-HM102



Description

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|-------------------------|--|
| Source | Recombinant Human BST2 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Asn49-Ser161. |
| Accession | Q10589-1 |
| Molecular Weight | The protein has a predicted MW of 14.5 kDa. Due to glycosylation, the protein migrates to 25-35 kDa based on Tris-Bis PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Tris-Bis PAGE |

Formulation and Storage

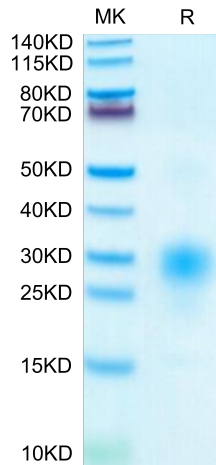
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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. |

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 NFκB-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.

Assay Data

Tris-Bis PAGE



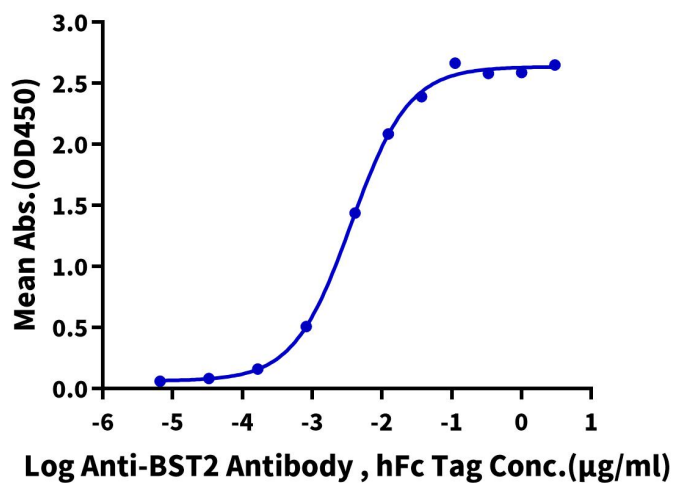
Human BST2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Assay Data

Human BST2, His Tag ELISA

0.2µg Human BST2, His Tag Per Well



Immobilized Human BST2, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-BST2 Antibody, hFc Tag with the EC50 of 3.6ng/ml determined by ELISA.