

Rev02  
 Update: May,14,2025

**DATASHEET**

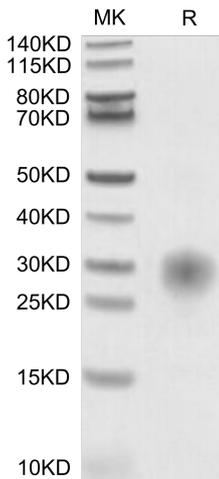
# BST2, His, Human

Cat. No.: Z05086

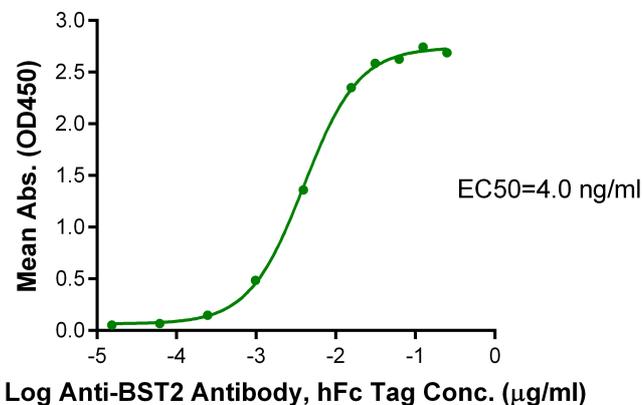
## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; align-items: center; gap: 10px;"> <div style="background-color: #4a7c9c; color: white; padding: 5px; font-weight: bold;">His</div> <div style="border: 1px solid #4a7c9c; padding: 5px; font-weight: bold;">           BST2 (Asn49-Ser161)            Accession # Q10589-1         </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px; font-size: small;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized BST2, His, Human at 2µg/ml (100µl/Well) on the plate can bind AntiBST2 Antibody, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	14.5 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 25-35 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

## Examples



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



Immobilized BST2, His, Human, His Tag at 2 µg/ml(100 µl/well) on the plate. Dose response curve for Anti-BST2 Antibody, hFc Tag with the EC50 of 4.0 ng/ml determined by ELISA.

## Background

**Target 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.

**Synonyms :** BST-2; HM1.24 antigen; CD317; BST2; NPC-A-7; PDCA-1; TETHERIN

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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