

For Research Use Only

# BST2 Recombinant antibody

Catalog Number: 84190-7-RR



## Basic Information

<b>Catalog Number:</b> 84190-7-RR	<b>GenBank Accession Number:</b> BC033873	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul, Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 684	<b>CloneNo.:</b> 241513A1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q10589	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:125-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> bone marrow stromal cell antigen 2	<b>IF/ICC 1:50-1:500</b>
	<b>Calculated MW:</b> 180 aa, 20 kDa	
	<b>Observed MW:</b> 30-36 kDa, 50-70 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

**WB:** HeLa cells, HepG2 cells, L02 cells, THP-1 cells,  
human heart tissue

**IHC:** mouse liver tissue,

**IF/ICC:** HeLa cells, HepG2 cells

## Background Information

BST2, also named as CD317 and Tetherin, belongs to the tetherin family. It may be involved in the sorting of secreted proteins and it is involved in pre-B-cell growth. BST2 is an antiretroviral defense protein, that blocks release of retrovirus from the cell surface. Depleted upon HIV-1 infection by viral VPU protein through 20S proteasome degradation. Depleted upon infection by human Kaposi's sarcoma-associated herpesvirus (KSHV) through ubiquitination and subsequent degradation. BST2 may play a role in B-cell activation in rheumatoid arthritis. It is recently identified interferon-induced cellular proteins that restrict infections by retroviruses and filoviruses and of influenza virus and flaviviruses, respectively. BST2 is a plasma membrane proteins, tetherin inhibits virion particle release from infected cells. BST2 is effective against retroviruses and flavoviruses whilst IFITMs disrupt influenza and flavivirus infection. Observed MW of BST2 is 30-36 kDa (PMID: 19196977; 21237475).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

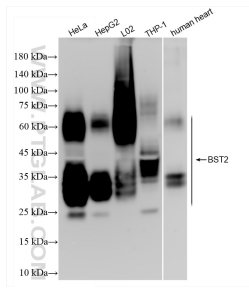
For technical support and original validation data for this product please contact:

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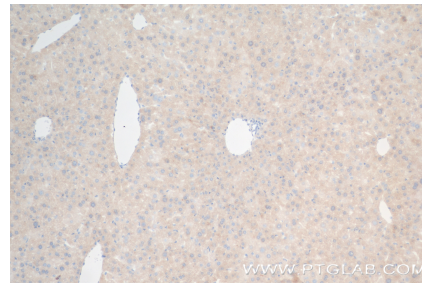
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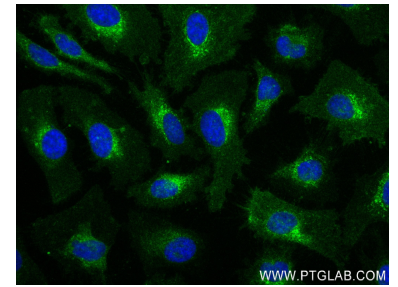
## Selected Validation Data



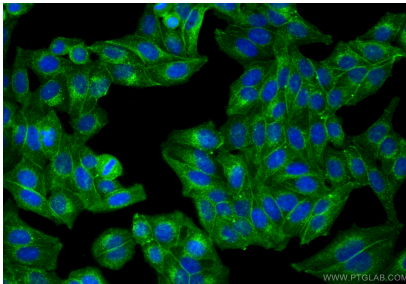
Various lysates were subjected to SDS PAGE followed by western blot with 84190-7-RR (BST2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



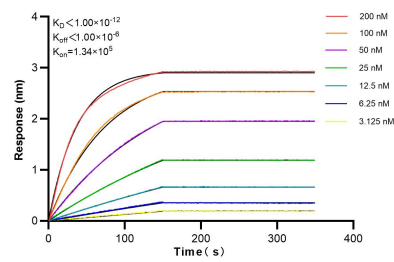
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 84190-7-RR (BST2 antibody) at dilution of 1:250 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using BST2 antibody (84190-7-RR, Clone: 241513A1) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using BST2 antibody (84190-7-RR, Clone: 241513A1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84190-7-RR against Human BST2 were performed. The affinity constant is below 1 pM.