

# BST2 Monoclonal antibody

Catalog Number: 66919-1-Ig 1 Publications

## Basic Information

<b>Catalog Number:</b> 66919-1-Ig	<b>GenBank Accession Number:</b> BC033873	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 2500 µg/ml	<b>GeneID (NCBI):</b> 684	<b>CloneNo.:</b> 3C4B5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q10589	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:250-1:1000
<b>Isotype:</b> IgG2b	<b>Full Name:</b> bone marrow stromal cell antigen 2	
<b>Immunogen Catalog Number:</b> AG4430	<b>Calculated MW:</b> 180 aa, 20 kDa <b>Observed MW:</b> 18 kDa, 30-36 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human	<b>WB:</b> HeLa cells, HepG2 cells, L02 cells, human peripheral blood leukocyte, Jurkat cells, THP-1 cells
<b>Cited Species:</b> human	<b>IHC:</b> human liver tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yukihiro Hirata	35044867	Mol Biol Cell	

## 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**

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

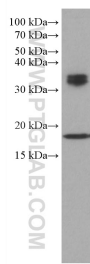
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

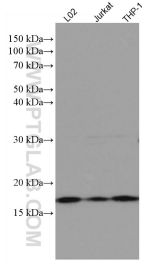
W: [ptgcn.com](http://ptgcn.com)

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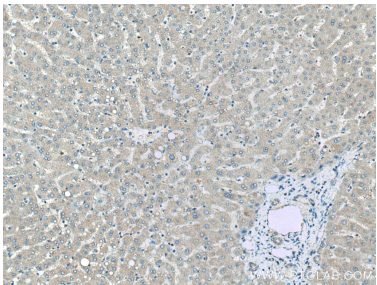
## Selected Validation Data



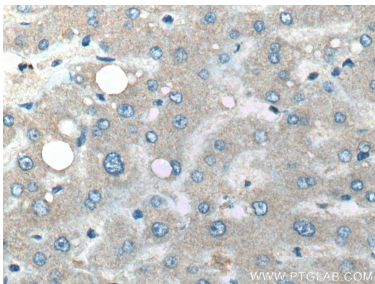
HeLa cells were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66919-1-Ig (BST2 antibody) at dilution of 1:500 (under 10x lens) Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66919-1-Ig (BST2 antibody) at dilution of 1:500 (under 40x lens) Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).