

For Research Use Only

# BST2 Monoclonal antibody, PBS Only



Catalog Number: 66919-1-PBS

## Basic Information

**Catalog Number:**

66919-1-PBS

**Size:**

1mg/ml

**Source:**

Mouse

**Isotype:**

IgG2b

**Immunogen Catalog Number:**

AG4430

**GenBank Accession Number:**

BC033873

**GeneID (NCBI):**

684

**UNIPROT ID:**

Q10589

**Full Name:**

bone marrow stromal cell antigen 2

**Calculated MW:**

180 aa, 20 kDa

**Observed MW:**

18 kDa, 30-36 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

3C4B5

## Applications

**Tested Applications:**

WB, IHC, Indirect ELISA

**Species Specificity:**

Human

## 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 -80°C.

**Storage Buffer:**

PBS Only

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

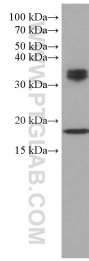
T: 4006900926

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

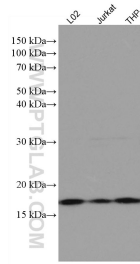
W: [ptgcn.com](http://ptgcn.com)

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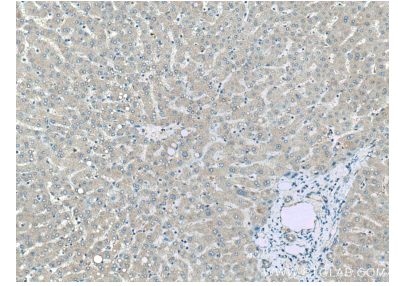
## Selected Validation Data



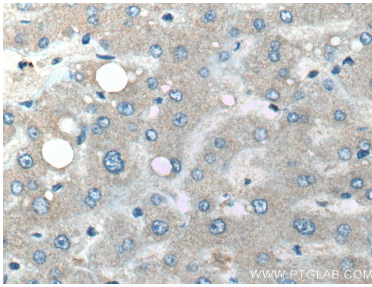
HeLa cells were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.



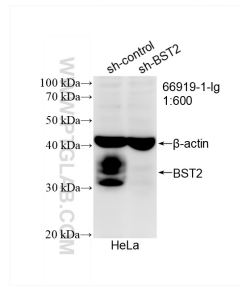
Various lysates were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.



WB result of BST2 antibody (66919-1-Ig; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-BST2 transfected HeLa cells. This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.