

For Research Use Only

# BST2 Polyclonal antibody

Catalog Number: 13560-1-AP

Featured Product

31 Publications



## Basic Information

### Catalog Number:

13560-1-AP

### Concentration:

600 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### 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:

30-36 kDa, 50-70 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

human

### Cited Species:

human

### Positive Controls:

WB : HeLa cells, L02 cells

IHC : human liver tissue,

IF/ICC : NCCIT cells,

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

## 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 retrovirus release 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 flaviviruses and of influenza virus and flaviviruses, respectively. BST2 is a plasma membrane protein, 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 are 30-36 kDa (monomer form) and 50-70 kDa (dimer form) (PMID: 19196977; 21237475; 19737401; 37922253).

## Notable Publications

| Author       | Pubmed ID | Journal       | Application |
|--------------|-----------|---------------|-------------|
| Shouheng Jin | 28965816  | Mol Cell      | WB          |
| Wenying Gao  | 34630422  | Front Immunol | WB          |
| Yuxuan Fu    | 28910400  | PLoS Pathog   | WB          |

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

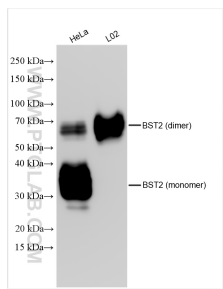
T: 4006900926

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

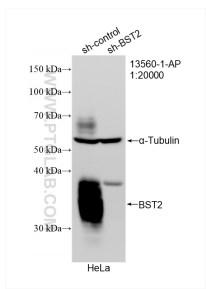
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

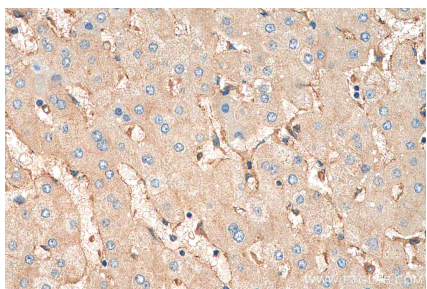
## Selected Validation Data



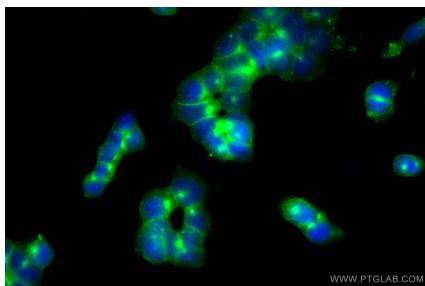
Various lysates were subjected to SDS PAGE followed by western blot with 13560-1-AP (BST2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



WB result of BST2 antibody (13560-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-BST2 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 13560-1-AP (BST2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed NCCIT cells using BST2 antibody (13560-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).