

# BST2 Polyclonal antibody

Catalog Number: 13560-1-AP

Featured Product

23 Publications

## Basic Information

<b>Catalog Number:</b> 13560-1-AP	<b>GenBank Accession Number:</b> BC033873	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 684	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> bone marrow stromal cell antigen 2	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 180 aa, 20 kDa	
<b>Immunogen Catalog Number:</b> AG4430	<b>Observed MW:</b> 30-36 kDa, 50-70 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> CoIP, FC, IF, IHC, WB	<b>WB:</b> HeLa cells, L02 cells
<b>Species Specificity:</b> human	<b>IHC:</b> human liver tissue,
<b>Cited Species:</b> human	<b>IF:</b> HepG2 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 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
Shouheng Jin	28965816	Mol Cell	WB
Wenying Gao	34630422	Front Immunol	WB
Yuxuan Fu	28910400	PLoS Pathog	WB

## Storage

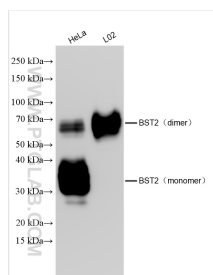
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

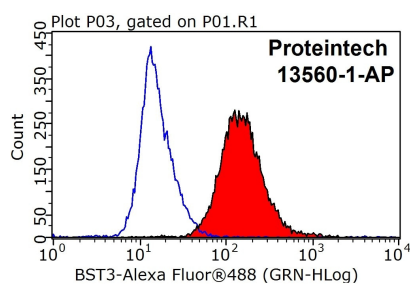
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

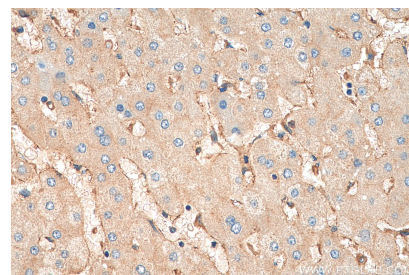
## Selected Validation Data



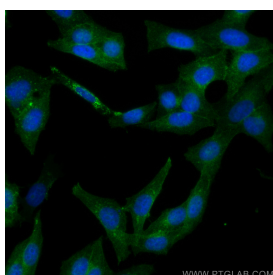
Various lysates were subjected to SDS PAGE followed by western blot with 13560-1-AP (BST2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug BST2 antibody (13560-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



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 (4% PFA) fixed HepG2 cells using BST2 antibody (13560-1-AP) at dilution of 1:100 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).