

For Research Use Only

BST2 Polyclonal antibody

Catalog Number: 13560-1-AP

Featured Product

29 Publications



Basic Information

Catalog Number: 13560-1-AP	GenBank Accession Number: BC033873	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 ug/ml by Nanodrop;	GeneID (NCBI): 684	Recommended Dilutions: WB 1:2000-1:16000
Source: Rabbit	UNIPROT ID: Q10589	IHC 1:50-1:500
Isotype: IgG	Full Name: bone marrow stromal cell antigen 2	IF/ICC 1:50-1:500
Immunogen Catalog Number: AG4430	Calculated MW: 180 aa, 20 kDa	
	Observed MW: 30-36 kDa, 50-70 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF, ColP	WB : HeLa cells, L02 cells
Species Specificity: human	IHC : human liver tissue,
Cited Species: human	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

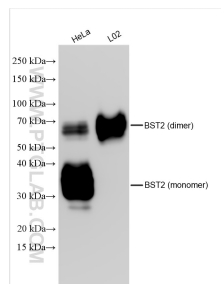
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

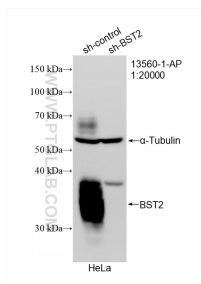
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

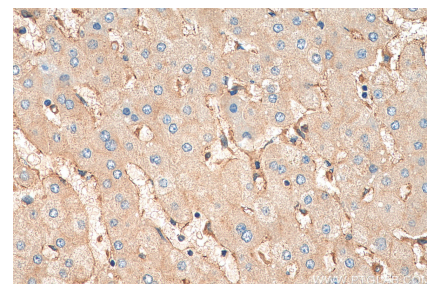
Selected Validation Data



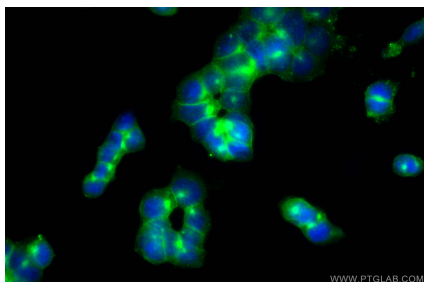
Various lysates were subjected to SDS PAGE followed by western blot with 13560-1-AP (BST2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).