

For Research Use Only

BST2 Monoclonal antibody

Catalog Number: 66919-1-Ig

Featured Product

1 Publications



Basic Information

Catalog Number:

66919-1-Ig

Size:

150ul, Concentration: 2500 ug/ml by 684
Nanodrop and 1000 ug/ml by Bradford
method using BSA as the standard;

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

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:250-1:1000

IF/ICC 1:1250-1:5000

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human

Cited Species:

human

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

Positive Controls:

WB : HeLa cells, HepG2 cells, human peripheral blood
leukocyte, L02 cells, Jurkat cells, THP-1 cells

IHC : human liver tissue,

IF/ICC : HeLa cells,

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

*** 20ul sizes contain 0.1% BSA

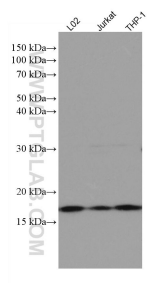
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

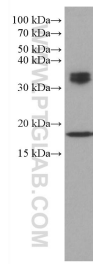
E: proteintech@ptglab.com
W: ptglab.com

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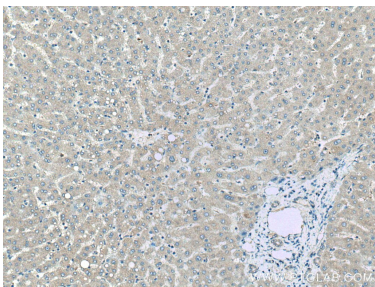
Selected Validation Data



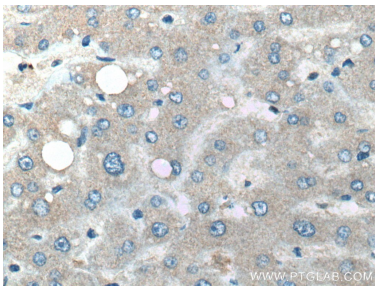
Various lysates were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



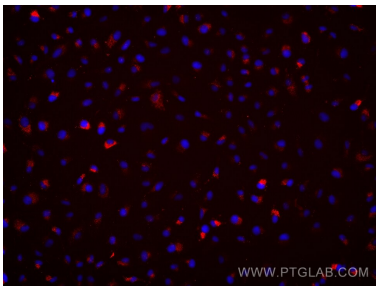
HeLa cells were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



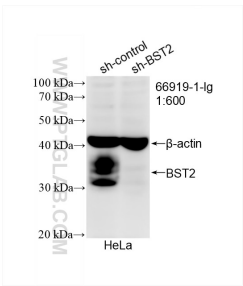
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66919-1-Ig (BST2 antibody) at dilution of 1:500 (under 10x lens) Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0).



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).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using BST2 antibody (66919-1-Ig, Clone: 3C4B5) at dilution of 1:2500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



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.