

For Research Use Only

BST2 Monoclonal antibody

Catalog Number: 66919-1-Ig 1 Publications



Basic Information

Catalog Number: 66919-1-Ig	GenBank Accession Number: BC033873	Purification Method: Protein A purification
Size: 2500 µg/ml	GeneID (NCBI): 684	CloneNo.: 3C4B5
Source: Mouse	UNIPROT ID: Q10589	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:250-1:1000
Isotype: IgG2b	Full Name: bone marrow stromal cell antigen 2	
Immunogen Catalog Number: AG4430	Calculated MW: 180 aa, 20 kDa	
	Observed MW: 18 kDa, 30-36 kDa	

Applications

Tested Applications:
IHC, WB, 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, L02 cells, human peripheral blood leukocyte, Jurkat cells, THP-1 cells
IHC: human liver tissue,

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 FITMs 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	

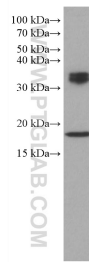
Storage

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

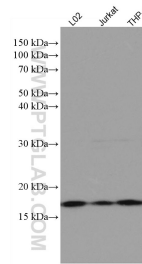
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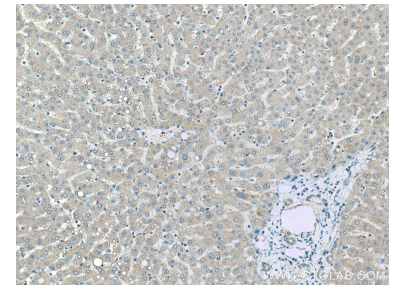
Selected Validation Data



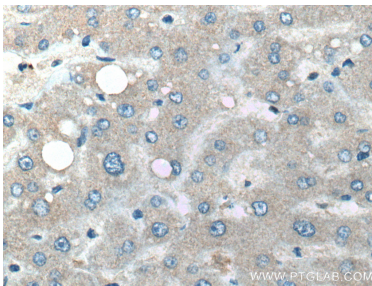
HeLa cells were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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.



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).