

BST2 Monoclonal antibody, PBS Only

Catalog Number: 66919-1-PBS

Basic Information

Catalog Number:

66919-1-PBS

Size:

1mg/ml

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

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

Human

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).

Storage

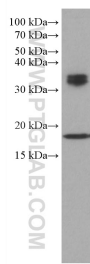
Storage:

Store at -80°C.

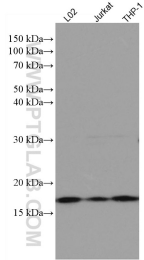
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**Storage Buffer:**

PBS Only

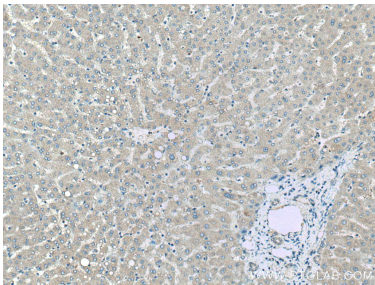
Selected Validation Data



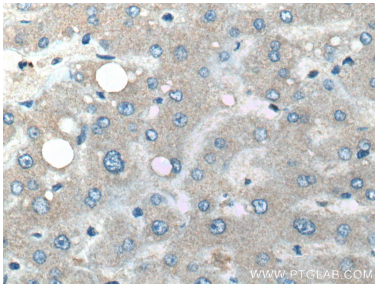
HeLa cells were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.



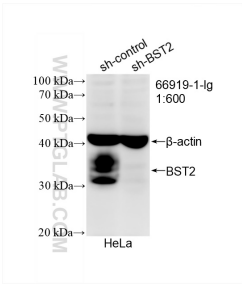
Various lysates were subjected to SDS PAGE followed by western blot with 66919-1-Ig (BST2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66919-1-PBS in a different storage buffer formulation.