

BST2 Recombinant antibody

Catalog Number: 82733-7-RR

Featured Product

Basic Information

Catalog Number:

82733-7-RR

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

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:

30-36 kDa

Purification Method:

Protein A purification

CloneNo.:

7J24

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, HepG2 cells, L02 cells

IF/ICC : HepG2 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).

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

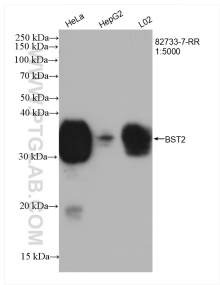
For technical support and original validation data for this product please contact:

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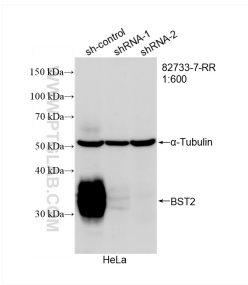
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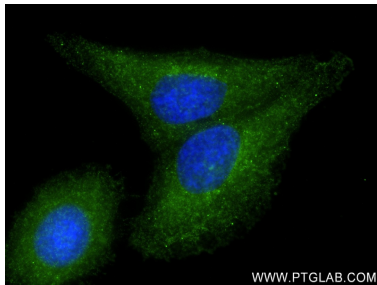
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82733-7-RR (BST2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



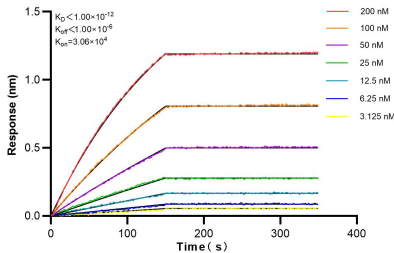
WB result of BST2 antibody (82733-7-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-BST2 transfected HeLa cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using BST2 antibody (82733-7-RR, Clone: 7J24.) at dilution of 1:125 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug BST2 Recombinant antibody (82733-7-RR, Clone:7J24) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bi-layer interferometry (BLI) kinetic assays of 82733-7-RR against Human BST2 were performed. The affinity constant is below 1 pM.