

Mouse BST 2 Monoclonal Antibody | anti-BST2 antibody

Monoclonal Antibody to BST 2 (Clone: ABM52D8)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78258	Mouse	Rat, Mouse, Human	Western Blot, Flow Cytometry, Functional Assay

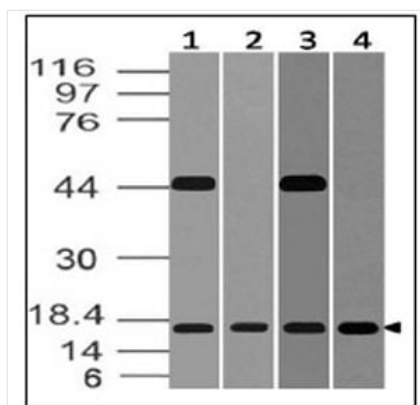
PRODUCT SYNONYMS

BST 2; Monoclonal Antibody; Monoclonal Antibody to BST 2 (Clone: ABM52D8); Bone marrow stromal antigen 2; HM1.24 antigen; Tetherin; CD317; anti-BST2 antibody

PRODUCT SPECIFICATIONS

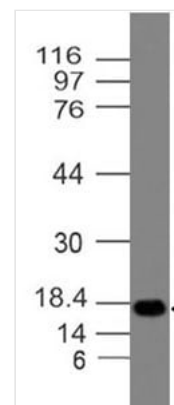
Host	Mouse
Reactivity	Rat, Mouse, Human
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	ABM52D8
Purity/Purification	Purified Protein G Chromatography
Form/Format	25 ug in 50 ul/100 ug in 200 ul PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Sequence Length	180
Applicable Applications for anti-BST2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry)
Immunogen Information	Full length recombinant protein of BST 2 was used as the immunogen for this antibody.
Preparation and Storage	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

IMAGES



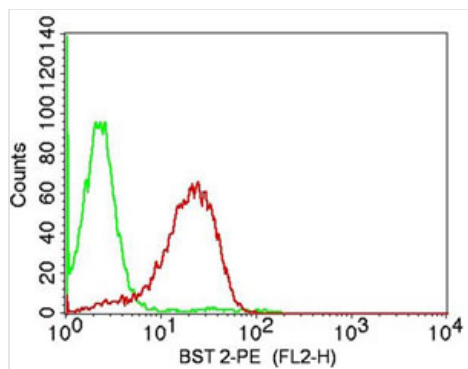
WB (Western Blot)

Fig-4: Western blot analysis of BST 2. Anti-BST 2 antibody (Clone: ABM52D8) was used at 2 ug/ml on (1) m Lung, (2) r Lung, (3) m Kidney and (4) r Kidney lysates.



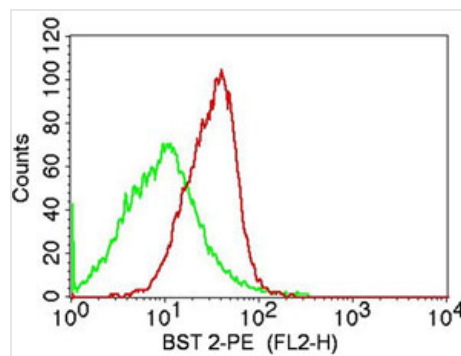
WB (Western Blot)

Fig-3: Western blot analysis of BST 2. Anti-BST 2 antibody (Clone: ABM52D8) was used at 2 ug/ml on Ramos lysate.



FCM/FACS (Flow Cytometry)

Fig-2: Cell surface flow analysis of BST2 on Molt4 cells using 0.5 ug/10⁶ cells of antibody (Clone: ABM52D8). Green represents isotype control; red represents anti-BST2 antibody. Goat anti-mouse PE conjugate was used as secondary antibody. (Cells were incubated with primary antibody for 45 min. then washed twice with PBS by centrifuging at 1100 rpm for 5 min, followed by 30 min incubation with conjugated secondary antibody. Data acquisition was done after washing twice with PBS as mentioned above).



FCM/FACS (Flow Cytometry)

Fig-1: Cell surface flow analysis of BST2 in PBMCs (lymphocytes gated) using 0.5 ug/10⁶ cells of antibody (Clone: ABM52D8). Green represents isotype control; red represents anti-BST2 antibody. Goat anti-mouse PE conjugate was used as secondary antibody. (Cells were incubated with primary antibody for 45 min. then washed twice with PBS by centrifuging at 1100 rpm for 5 min, followed by 30 min incubation with conjugated secondary antibody. Data acquisition was done after washing twice with PBS as mentioned above).

ADDITIONAL INFORMATION

Related Product Information for anti-BST2 antibody	BST2 (Bone Marrow Stromal Antigen 2), a type II transmembrane protein also known as HM1.24/CD317, has been identified to be overexpressed in a variety of cell lines from different cancer types, including multiple myeloma, breast, lung, and kidney cancers. BST2 was discovered as a marker of differentiated B cells and was later rediscovered as a potent antiviral restriction factor with the ability to tether enveloped viruses to the cell membrane of infected cells via its GPI anchor as well as to potentially inhibit virus replication in cultured cells and in vivo. It also acts as an innate immune sensor of HIV-1 that elicits an inflammatory response upon exposure. BST2 mediate host immune response by activating NF-KB through interaction with TAK1 (Transforming Growth Factor Beta-Activated Kinase 1) and TNF receptor associated factors (TRAFs) 2 and 6. In addition, BST2 induces ADCC (antibody-dependent cell cytotoxicity) against the envelope protein of HIV. BST2 was expressed constitutively on the cell surface of both CD3- and CD3+ thymocytes ex vivo.
Product Categories/Family for anti-BST2 antibody	Antibodies ; Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	1705508
NCBI GeneID	684
UniProt Accession #	Q10589 ; Q53G07 ; A8K4Y4
NCBI Official Full Name	Bone marrow stromal antigen 2
NCBI Official Synonym Full Names	bone marrow stromal cell antigen 2
NCBI Official Symbol	BST2
NCBI Official Synonym Symbols	CD317; TETHERIN
NCBI Protein Information	bone marrow stromal antigen 2
UniProt Protein Name	Bone marrow stromal antigen 2
UniProt Gene Name	BST2
UniProt Synonym Gene Names	BST-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.