

Rabbit Anti-BST1 antibody

SL6023R

Product Name	BST1
Chinese Name	骨髓基质 Stem cells 抗原 1 抗体
Alias	Cyclic ADP ribose hydrolase 2; ADP ribosyl cyclase 2; Bone marrow stromal antigen 1; Bone marrow stromal cell antigen 1; BST 1; BST1; BST-1; cADPr hydrolase 2; CD157; CD157 antigen; NAD(+) nucleosidase; BST1_HUMAN.
Research Area	Cell biology immunology Signal transduction Stem cells b-lymphocyte
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Rabbit)
Applications	WB=1:500-2000,Flow-Cyt=1 μ g/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	33kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human BST1/CD157: 51-150/318
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Rabbit)1M TBS(pH7.4) with 1% BSA, Human,Mouse(predicted:Rat,Dog,Pig,Cow,Rabbit)3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Bone marrow stromal cell antigen 1 (BST1) is a pleiotropic ectoenzyme which belongs to the CD38 family and to the growing number of leukocyte surface molecules known to act independently as both receptors and enzymes. The BST1 molecule displays two distinct domains in its extracellular component. The first is implicated in the enzymic activities of the molecule (it synthesizes cyclic ADP-ribose, a second messenger that elicits calcium release from intracellular stores) and the second domain has adhesion/signalling properties. Bone marrow stromal cell antigen 1 facilitates pre-B-cell growth. The deduced amino acid sequence exhibits 33% similarity with CD38. BST1 expression is enhanced in bone marrow stromal cell lines derived from patients with rheumatoid arthritis. The polyclonal B-cell abnormalities in rheumatoid arthritis may be, at least in part, attributed to BST1 overexpression in the stromal cell population.

Function:

Synthesizes cyclic ADP-ribose, a second messenger that elicits calcium release from intracellular stores. May be involved in pre-B-cell growth.

Subunit:

Homodimer.

Product Detail

Subcellular Location:

Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Specificity:

Widely expressed.

Similarity:

Belongs to the ADP-ribosyl cyclase family.

SWISS:

Q10588

Gene ID:

683

Database links:

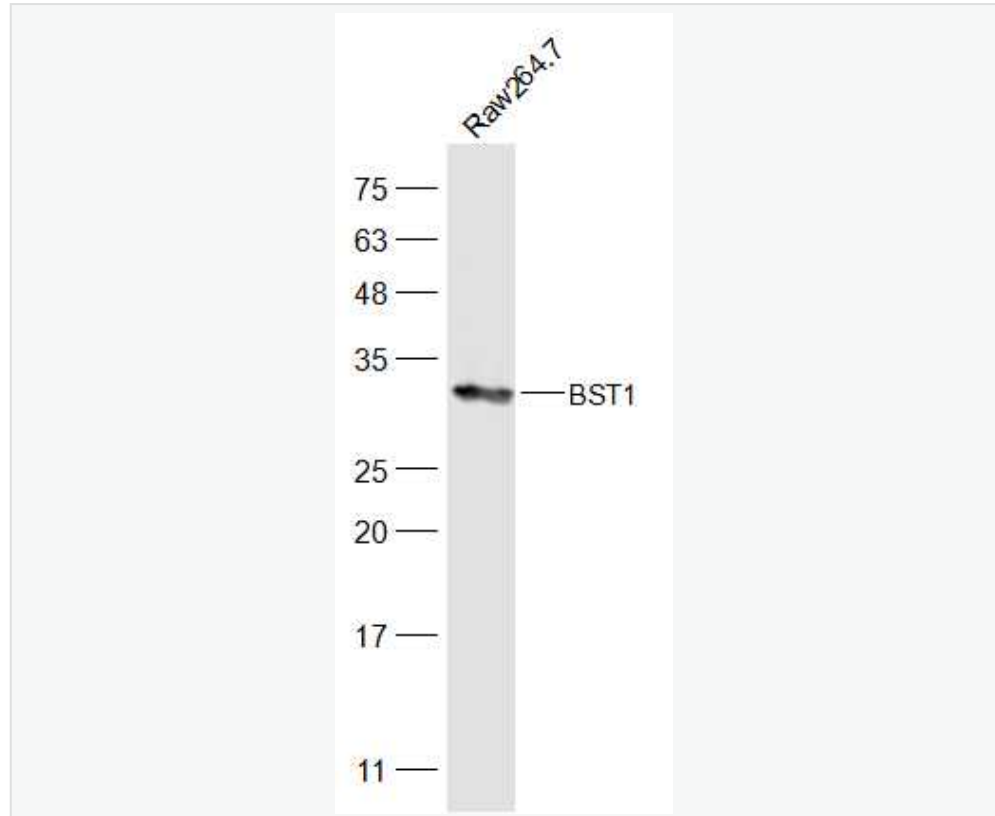
[Entrez Gene: 683](#) Human

[Omim: 600387](#) Human

[SwissProt: Q10588](#) Human

[Unigene: 720344](#) Human

Product Picture



Sample:

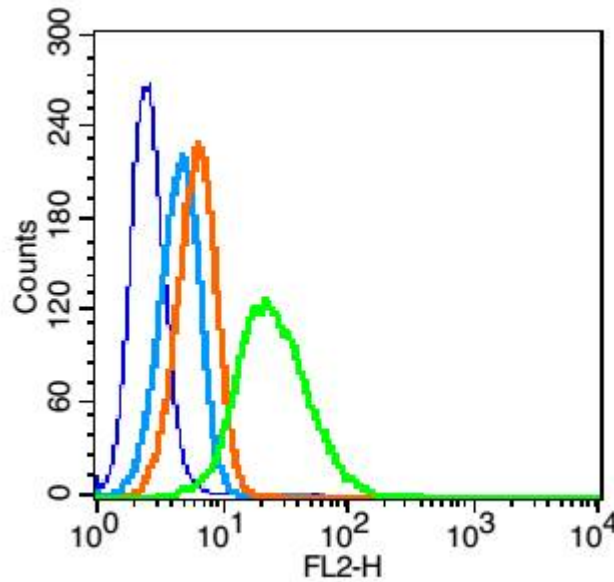
Raw264.7(Mouse) Cell Lysate at 30 ug

Primary: Anti-BST1 (SL6023R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

Observed band size: 33 kD



Blank control: U937(blue).

Primary Antibody: Rabbit Anti-BST1 antibody(SL6023R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG (orange) ,used under the same conditions.

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min).Primary antibody (SL6023R, 1 μ g /1x10⁶ cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer



mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.