



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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1µg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or 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
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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

[Omid: 600387](#)Human

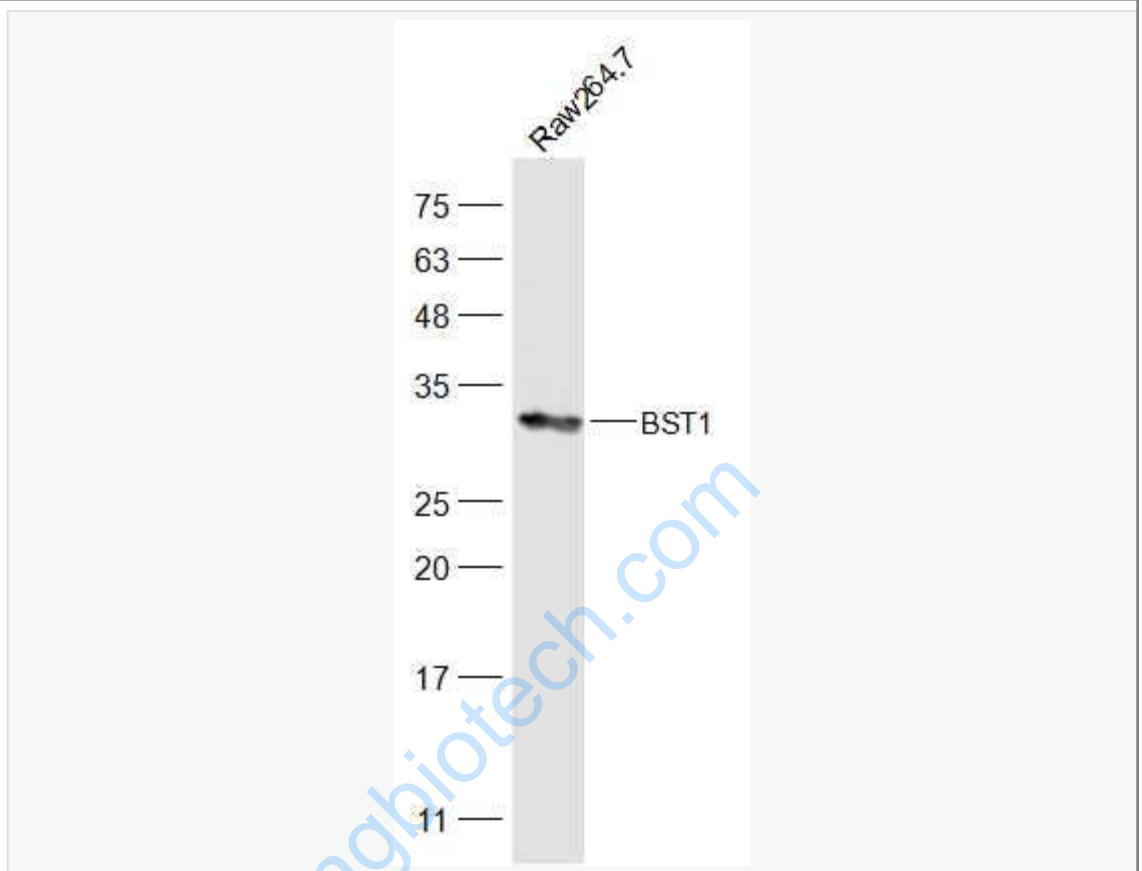
[SwissProt: Q10588](#)Human

[Unigene: 720344](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

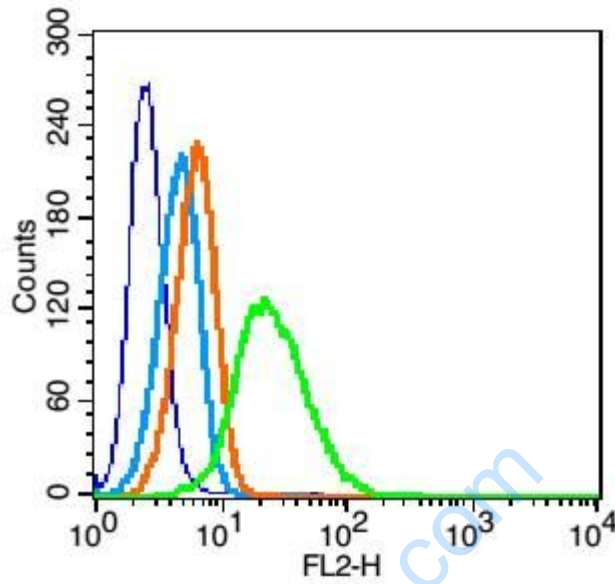
Raw264.7(Mouse) Cell Lysate at 30 ug

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) 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.