



# BST-1 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-13870
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Monkey
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	BST1
<b>Protein Name</b>	ADP-ribosyl cyclase 2
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human BST1. AA range:71-120
<b>Specificity</b>	BST-1 Polyclonal Antibody detects endogenous levels of BST-1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	BST1; ADP-ribosyl cyclase 2; Bone marrow stromal antigen 1; BST-1; Cyclic ADP-ribose hydrolase 2; cADPr hydrolase 2; CD antigen CD157
<b>Observed Band</b>	34kD
<b>Cell Pathway</b>	Cell membrane; Lipid-anchor, GPI-anchor.
<b>Tissue Specificity</b>	Widely expressed.
<b>Function</b>	catalytic activity:NAD(+) + H <sub>2</sub> O = ADP-ribose + nicotinamide.,disease:Rheumatoid arthritis (RA) patients show enhanced expression of BST-1 transcripts in bone marrow stromal cell lines. This suggests that BST-1 overexpression may play a role in B-cell abnormalities in RA.,function:Synthesizes cyclic ADP-ribose, a second messenger that elicits calcium release from intracellular stores. May be involved in pre-B-cell growth.,similarity:Belongs to the ADP-ribosyl cyclase family.,subunit:Homodimer.,tissue specificity:Widely expressed.,
<b>Background</b>	Bone marrow stromal cell antigen-1 is a stromal cell line-derived glycosylphosphatidylinositol-anchored molecule that 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. [provided by RefSeq, Jul 2008],

#### matters needing attention

Avoid repeated freezing and thawing!

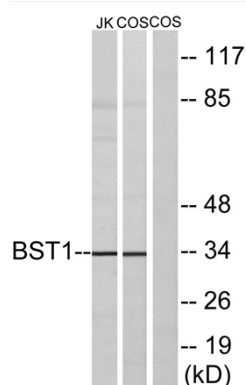
#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western Blot analysis of various cells using BST-1 Polyclonal Antibody



Western blot analysis of lysates from COS7 and Jurkat cells, using BST1 Antibody. The lane on the right is blocked with the synthesized peptide.