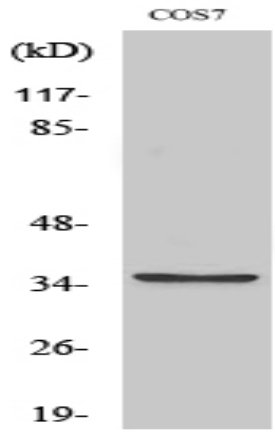
Best Tools for immunology Research

BST-1 Polyclonal Antibody

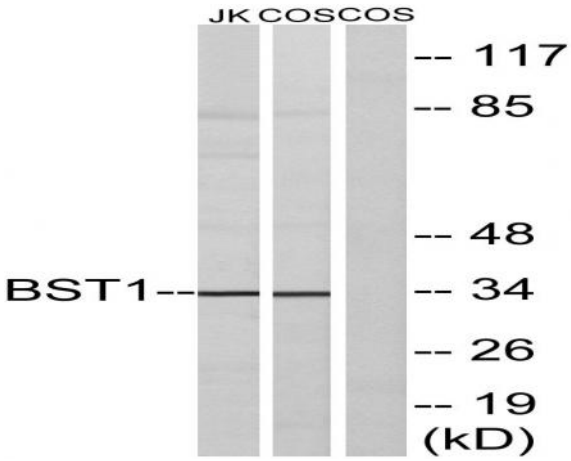
Catalog No :	YT0538
Reactivity :	Human;Mouse;Rat;Monkey
Applications :	WB;ELISA
Target :	BST-1
Fields :	>>Nicotinate and nicotinamide metabolism;>>Metabolic pathways;>>Salivary secretion;>>Pancreatic secretion
Gene Name :	BST1
Protein Name :	ADP-ribosyl cyclase 2
Human Gene Id :	683
Human Swiss Prot No :	Q10588
Mouse Gene Id :	12182
Mouse Swiss Prot No :	Q64277
Rat Gene Id :	81506
Rat Swiss Prot No :	Q63072
Immunogen :	The antiserum was produced against synthesized peptide derived from human BST1. AA range:71-120
Specificity :	BST-1 Polyclonal Antibody detects endogenous levels of BST-1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	34kD
Cell Pathway :	Nicotinate and nicotinamide metabolism;Calcium;
Background :	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],
Function :	catalytic activity:NAD(+) + H(2)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.,
Subcellular Location :	Cell membrane; Lipid-anchor, GPI-anchor.
Expression :	Widely expressed.

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.