

Rabbit Anti-Human Bone Marrow Stromal Cell Antigen 1 Monoclonal Antibody

Cat. No. CAB11482RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit monoclonal antibody to Human bone marrow stromal cell antigen 1.
Species	Human
Source	Rabbit
Antigen Description	Human CD157, also known as bone marrow stromal cell antigen 1 (BST-1), 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. As a 45-kDa surface glycoprotein with a GPI anchor, the CD157 molecule displays two distinct domains in its extracellular component. The first is implicated in the enzymic activities of the molecule and the second features adhesion/signalling properties. CD157 shares several characteristics with CD38, including a similar amino acid sequence and enzymic functions. Both molecules are involved in the metabolism of NAD ⁺ , and the CD157 gene is syntenic on 4p15 with CD38, with which it also shares a unique genomic organization. Their conservation in phylogeny is striking evidence for their relevance in the life and death cycle of the cell.
Specificity	Human CD157 / BST1. No cross-reactivity in ELISA with Mouse BST1, Human cell lysate (293 cell line).
Immunogen	Recombinant Human CD157 / BST1 Protein
Isotype	Rabbit IgG

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Clone	030
Applications	Western Blot; ELISA
Dilution	<p>Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect Human BST1 in WB. Using a DAB detection system, the detection limit for Human BST1 is approximately 0.5 ng/lane under non-reducing condition. Use of this antibody under reducing conditions is not recommended. Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect Human BST1. The detection limit for Human BST1 is approximately 0.0049 ng/well.</p>
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human CD157 / BST1.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	BST1 bone marrow stromal cell antigen 1 [Homo sapiens]
Official Symbol	BST1
Synonyms	BST1; bone marrow stromal cell antigen 1; ADP-ribosyl cyclase 2; ADP ribosyl cyclase 2; CD157; NAD(+) nucleosidase; BST-1; cADPr hydrolase 2; bone marrow

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stromal antigen 1; cyclic ADP-ribose hydrolase 2;

Gene ID

683

mRNA Refseq

NM_004334

Protein Refseq

NP_004325

MIM

600387

UniProt ID

Q10588

**Chromosome
Location**

4p15

Pathway


Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Metabolic pathways, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem; Pancreatic secretion, organism-specific biosystem; Pancreatic secretion, conserved biosystem;

Function

NAD⁺ nucleosidase activity; hydrolase activity; nucleotide binding;

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