

Rabbit anti-Mouse CD157 Polyclonal Antibody | anti-BST1 antibody

Anti-CD157 Antibody, Rabbit Polyclonal

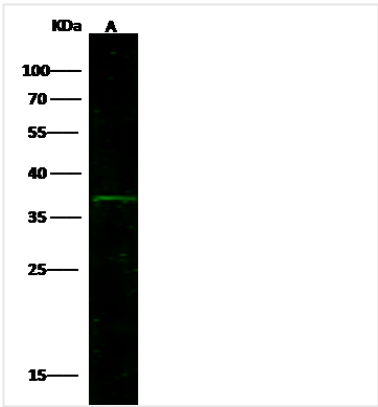
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA257136	Rabbit	Mouse	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

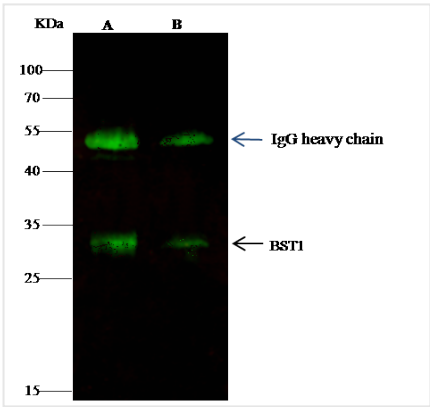
CD157; Polyclonal Antibody; Anti-CD157 Antibody; Rabbit Polyclonal; CD157/BST1 Antibody; Rabbit PAb; Antigen Affinity Purified; bone marrow stromal cell antigen 1; Anti-114/A10 Antibody; Anti-A530073F09 Antibody; Anti-BP-3 Antibody; Anti-Bp3 Antibody; Anti-Bsta1 Antibody; Anti-Ly65 Antibody; anti-BST1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse CD157/BST1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-BST1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse BST1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse BST1 (rM BST1). BST1 specific IgG was purified by mouse BST1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-BST1 rabbit polyclonal antibody at 1:500 dilutionLane A: Raji Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:36 kDaObserved band size:36 kDa



IP (Immunoprecipitation)
Mouse BST1 was immunoprecipitated using:Lane A:0.5 mg MCF-7 Whole Cell LysateLane B:0.5 mg 293T Whole Cell Lysate0.5 uL anti-Mouse BST1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-Mouse BST1 rabbit polyclonal antibody,at 1:1000 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 36 kDaObserved band size: 34 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-BST1 antibody	The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD157, also known as ADP-ribosyl cyclase 2, is an ectoenzyme sharing several characteristics with ADP-ribosyl cyclase CD38. CD157 was originally identified as a bone marrow stromal cell molecule (BST-1) with a glycosylphosphatidylinositol (GPI) anchor to bind to the cell surface. CD157 is prevalently expressed by cells of the myeloid lineage. CD157 could act as a receptor with signal transduction capability. Further, it regulates calcium homeostasis and promotes polarization in neutrophils and mediates superoxide (O ₂ ⁻) production in the human U937 myeloid line.
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.Malavasi F, et al. (2006) CD38 and CD157 as Receptors of the Immune System: A Bridge Between Innate and Adaptive Immunity. Molecular Medicine. 12 (11-12): 334-41.Ortolan E, et al. (2002) CD157, the janus of CD38 but with a unique personality. Cell Biochemistry and Function. 20 (4): 309-22.

NCBI AND UNIPROT INFORMATION

NCBI GI #	134288869
NCBI GeneID	12182
NCBI Accession #	NP_033893.2
NCBI GenBank Nucleotide #	NM_009763.3
UniProt Accession #	Q64277; Q8BRY3
Molecular Weight	34,616 Da
NCBI Official Full Name	ADP-ribosyl cyclase 2
UniProt Protein Name	ADP-ribosyl cyclase 2
UniProt Gene Name	Bst1
UniProt Synonym Gene Names	Bp-3; Bp3; Ly65; BST-1; cADPr hydrolase 2; Ly-65

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd157-antibody-immunoprecipitation-western-blot-elisa/257136>