

Product datasheet for **AM31882PU-N**

Bst1 Rat Monoclonal Antibody [Clone ID: KT157]

Product data:

Product Type:	Primary Antibodies
Clone Name:	KT157
Applications:	FC
Recommended Dilution:	Flow Cytometry.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2c
Clonality:	Monoclonal
Immunogen:	T cell hybridoma J774. Donor: Balb/c mouse spleen cells. Fusion Partner: NSO Mouse Myelom a Partner.
Specificity:	This Monoclonal Antibody reacts with Mouse CD157 receptor. Other species not tested.
Formulation:	PBS containing 0.02% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	bone marrow stromal cell antigen 1
Database Link:	Entrez Gene 12182 Mouse Q64277



[View online »](#)

Background:

CD157 also known as BP-3 Alloantigen or Bone marrow Stromal cell antigen-1 (BST-1), is a 38-48 KDa differentially glycosylated glycosylphosphatidylinositol (GPI) anchored cell surface glycoprotein. CD157, like CD38 belongs to a family of genetically related pleiotropic ectoenzymes. The CD157 antigen is expressed on thymocytes, bone marrow B cells, neutrophils, macrophages, stromal cells, intestinal epithelial cells, the collecting tubules of the kidney and reticular cells in lymph nodes.

The CD157 receptor has ADP ribosyl cyclase and cyclic ADP ribose hydrolase biochemical activities. Studies show CD157 is a receptor that induces reorganization of the cytoskeleton and significant changes in cell shape. CD157 is also a mediator of neutrophil adhesion and migration. Signals mediated by CD157 act through modulation of cytosolic $[Ca^{2+}]$. CD157 is also involved in cellular adhesion to the extracellular matrix.

Synonyms:

cADPr hydrolase 2, BST-1