

## Product datasheet for **TA392425S**

### **BST2 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:5000~1:10000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human CD317.
Specificity:	CD317 polyclonal antibody detects endogenous levels of CD317 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 30/60 kDa
Gene Name:	bone marrow stromal cell antigen 2
Database Link:	<a href="#">Entrez Gene 684 Human Q10589</a>



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**Background:**

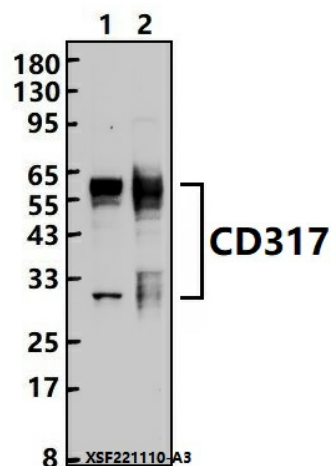
BST2 (CD317, Tetherin, HM1.24) is a type II transmembrane glycoprotein functioning as a major mediator of the innate immune defense against the dissemination of enveloped viruses by tethering virion on the cell surface. BST2 has an N-terminal cytoplasmic tail for endocytosis and cytoskeletal signaling, a transmembrane domain, an extracellular domain containing putative disulfide bonds and coiled coil region for forming homodimer, and a C-terminal GPI domain for membrane anchoring. Both the transmembrane domain and the GPI domain can insert either to the cell membrane or the viral envelope membrane and hold them together to prevent viral release. Some viruses encode proteins, such as HIV-1 and Vpu respectively, to act as antagonists to counteract BST2. BST2 is overexpressed in gastrointestinal cancers, breast cancer, lung cancer, and multiple myeloma. BST2 monoclonal antibody targeting myeloma or lung cancer cells induces cellular cytotoxicity and cell death (ADCC, antibody-dependent cell-mediated cytotoxicity). Thus, BST2 serves as a potential target for tumor immunotherapy.

**Synonyms:**

Bone marrow stromal antigen 2; BST-2; BST2; CD317; HM1.24 antigen; Tetherin

**Note:**

For research use only, not for use in diagnostic procedure.

**Product images:**

Western blot (WB) analysis of CD317 polyclonal antibody at 1:5000 dilution Lane1:The Kidney tissue lysate of Mouse(30ug) Lane2:L02 cell membrane lysate(24ug)