BST2 (D5V5Z) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 28-40	Source/Isotype: Rabbit IgG	UniProt ID: #Q10589	Entrez-Gene Id: 684
Product Usage Information	•	plication estern Blotting			Dilution 1:1000	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensitivity		BST2 (D5V5Z) Rabbit mAb recognizes endogenous levels of total BST2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val134 of human BST2 protein.				
Background	of th surfi tran for h tran mer and gast antil antil	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 (1). 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 homodimer formation, and a C-terminal GPI domain for membrane anchoring (2,3). Both the transmembrane domain and the GPI domain can insert either into 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 (2,3). BST2 is overexpressed in gastrointestinal cancers, breast cancer, lung cancer, and multiple myeloma (4-7). 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.				
Background Refe	2. D 3. K 4. M 5. S 6. W	 Le Tortorec, A. et al. (2011) Viruses 3, 520-40. Douglas, J.L. et al. (2010) PLoS Pathog 6, e1000913. Kuhl, B.D. et al. (2011) J Neuroimmune Pharmacol 6, 188-201. Mukai, S. et al. (2016) Ann Surg Oncol, 594-602. Sayeed, A. et al. (2013) PLoS One 8, e67191. Wang, W. et al. (2009) Cancer Immunol Immunother 58, 967-76. Harada, T. and Ozaki, S. (2014) Biomed Res Int 2014, 965384. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting **Applications Key**

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and **Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the **Limited Uses**

following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in

writing by a legally authorized representative of CST, are rejected and are of no force or effect.

BST2 (D5V5Z) Rabbit mAb (#19277) Datasheet Without Images Cell Signaling Technology

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.