

Technical Data Sheet

Purified Mouse Anti-Human CD44

Product Information

Material Number:	559046
Size:	0.2 mg
Concentration:	1.0 mg/ml
Clone:	L178
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Reacts with homing-associated cell adhesion molecule (HCAM), CD44, an integral membrane glycoprotein that exists in a variety of isoforms (CD44 variants). CD44 is synthesized as a 37 kDa polypeptide that is converted to a 80-90 kDa form by glycosylation via N- and O-linkages, or to a 180-200 kDa form by the addition of chondroitin sulfate. It is expressed on leukocytes, erythrocytes, epithelial cells and weakly on platelets. Depending on the cell type, CD44 may participate in a variety of functions including cell adhesion, motility and cell activation.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
----------------	------------------

Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Brown TA, Bouchard T, St John T, Wayner E, Carter WG. Human keratinocytes express a new CD44 core protein (CD44E) as a heparan-sulfate intrinsic membrane proteoglycan with additional exons. *J Cell Biol.* 1991 April; 113(1):207-221.(Biology)
Carter WG, Wayner EA. Characterization of the class III collagen receptor, a phosphorylated, transmembrane glycoprotein expressed in nucleated human cells. *J Biol Chem.* 1998 March; 263(9):4193-4201.(Biology)
Denning SM, Le PT, Singer KH, Haynes BF. Antibodies against the CD44 p80, lymphocyte homing receptor molecule augment human peripheral blood T cell activation. *J Immunol.* 1990 January; 144(1):7-15.(Biology)
Gallatin WM, Wayner EA, Hoffman PA, St John T, Butcher EC, Carter WG. Structural homology between lymphocyte receptors for high endothelium and class III extracellular matrix receptor. *Proc Natl Acad Sci U S A.* 1989 June; 86(12):4654-4658.(Biology)
Jalkanen S, Jalkanen M, Bargatze R, Tammi M, Butcher EC. Biochemical properties of glycoproteins involved in lymphocyte recognition of high endothelial venules in man. *J Immunol.* 1988 September; 141(5):1615-1623.(Biology)
Shimizu Y, Van Seventer GA, Siraganian R, Wahl L, Shaw S. Dual role of the CD44 molecule in T cell adhesion and activation. *J Immunol.* 1989 October; 143(8):2457-2463.(Biology)
St John T, Meyer J, Idzerda R, Gallatin WM. Expression of CD44 confers a new adhesive phenotype on transfected cells. *Cell.* 1990 January; 60(1):45-52.(Biology)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD

