

Datasheet: MCA1728F

Description:	MOUSE ANTI HUMAN CD44v4:FITC
Specificity:	CD44v4
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	VFF-11
Isotype:	IgG1
Quantity:	100 TESTS

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Buffer Solution	Tris buffered saline		
Preservative	0.02% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Immunogen	Glutathione S Transferase (GST) fusion protein corresponding to the variable domains (v3 to v10) of human CD44.		
External Database Links	UniProt: P16070 Related reagents		
	Entrez Gene: 960 CD44 Related reagents		

Synonyms	LHR, MDU2, MDU3, MIC4
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the P3X63Ag8.653 myeloma cell line.
Specificity	Mouse anti Human CD44v4 antibody, clone VFF-11 specifically recognizes an epitope encoded by exon v4 on the variant portion of human CD44. CD44v4 is strongly expressed on some breast cancer cell lines, notably epithelial-like BT-20 cells where v4 containing isoforms possess functional E-selectin ligand activity mediating cell adhesion under physiological flow conditions (Shirure et al. 2014).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Koopman, G. <i>et al.</i> (1993) Activated human lymphocytes and aggressive non-Hodgkin's lymphomas express a homologue of the rat metastasis-associated variant of CD44. J Exp Med. 177 (4): 897-904. 2. Hanley, W.D. <i>et al.</i> (2005) Variant isoforms of CD44 are P- and L-selectin ligands on colon carcinoma cells. FASEB J. 20: 337-9. 3. Rajarajan, A. <i>et al.</i> (2012) CD44 expression in oro-pharyngeal carcinoma tissues and cell lines. PLoS One. 7: e28776. 4. Chandrasekaran, S. <i>et al.</i> (2012) Effect of homotypic and heterotypic interaction in 3D on the E-selectin mediated adhesive properties of breast cancer cell lines Biomaterials. 33: 9037-48. 5. El-Sharkawy, M.M. <i>et al.</i> (2003) CD44 expression and soluble CD44 as a potential marker of tumor load in pediatric acute leukemia. J Egypt Nat Cancer Inst. 15: 129-35. 6. Shirure, V.S. <i>et al.</i> (2015) CD44 variant isoforms expressed by breast cancer cells are functional E-selectin ligands under flow conditions. Am J Physiol Cell Physiol. 308 (1): C68-78. 7. Hudson, D.L. <i>et al.</i> (1995) CD44 is the major peanut lectin-binding glycoprotein of human epidermal keratinocytes and plays a role in intercellular adhesion. J Cell Sci. 108: 1959-70. 8. De Sousa, P. A. (2009) Method for differentiation of stem cells. U.S. Patent Application: US20090123430 A1 9. Lallana, E. <i>et al.</i> (2017) Chitosan/Hyaluronic Acid Nanoparticles: Rational Design Revisited for RNA Delivery. Mol Pharm. 14 (7): 2422-2436.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10058 available at: 10058: https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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