

Mouse CD44v6 Monoclonal Antibody | anti-CD44v6 antibody

MOUSE ANTI HUMAN CD44v6:FITC

CATALOG # AAA49818	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD44v6; Monoclonal Antibody; MOUSE ANTI HUMAN CD44v6:FITC; anti-CD44v6 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	VFF-18
Form/Format	FITC TRIS buffered saline Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Sequence Length	742
Applicable Applications for anti-CD44v6 antibody	FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.02% Sodium Azide 1% Bovine Serum Albumin
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the P3X63Ag8.653 myeloma cell line.
Immunogen	Glutathione S Transferase (GST) fusion protein corresponding to a variable domain v6 of human CD44.
Target Species	Human
Max Ex/Em	Fluorophore: FITC Excitation Max(nm): 490 Emission Max(nm): 525
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

ADDITIONAL INFORMATION

Related Product Information for anti-CD44v6 antibody	Mouse anti Human CD44v6, clone VFF-18, specifically recognizes a centrally located 14mer epitope encoded by amino acid residues 18-31, within variant exon 6 (v6) of human CD44 (Reinisch et al, 1998). CD44 is a member of a polymorphic family of transmembrane glycoproteins, which exists as a broadly expressed 80-90kDa standard form (CD44s), and also as numerous splice variants, due to extensive alternative splicing and post-translational modifications. Many functional properties of CD44s have been determined, including cell adhesion, lymphocyte activation, signal transduction, hematopoiesis, recirculation and homing, and CD44v6 has been particularly implicated in leukocyte to endothelial cell attachment and rolling, as well as homing to sites of inflammation and peripheral organs. As well as its role as a receptor for hyaluronic acid (HA), CD44s also interacts with other ligands including matrix metalloproteinases(MMPs), fibronectin and collagens, and has been linked with cancer of the breast, colon, stomach and squamous cell carcinomas (HNSCC) of the head and neck, as well as being a prognostic marker for non-Hodgkin's lymphoma. The variant isoforms of CD44 (CD44v) are highly expressed on epithelial cells but not leukocytes, and their association with cell transformation and cancer is also well established, supported by numerous immunohistochemical studies including those looking at HNSCC. Studies looking at the role of CD44v6 in Chrohns disease, in which clone VFF-18 was generated and characterised, revealed that VFF-18 binds to CD44v6 with high affinity when compared with anti-CD44v6 clone 2F10, and is suitable for detecting CD44v6 in inflammatory bowel disease (IBD) (Reinisch et al. 1998). Mouse anti Human CD44v6, clone VFF-18 is suitable for detecting CD44v6 in inflammatory bowel disease (IBD) (Reinisch et al, 1998).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	48255935
NCBI GeneID	960
NCBI Accession #	NP_000601.3
NCBI GenBank Nucleotide #	NM_000610.3
UniProt Accession #	P16070; O95370; P22511; Q04858; Q13419; Q13957; Q13958; Q13959; A5YRN9; B6EAT9; D3DR12; D3DR13
NCBI Official Full Name	CD44 antigen isoform 1
NCBI Official Synonym Full Names	CD44 molecule (Indian blood group)
NCBI Official Symbol	CD44
NCBI Official Synonym Symbols	IN; LHR; MC56; MDU2; MDU3; MIC4; Pgp1; CDW44; CSPG8; HCELL; HUTCH-I; ECMR-III
NCBI Protein Information	CD44 antigen; GP90 lymphocyte homing/adhesion receptor; Hermes antigen; cell surface glycoprotein CD44; chondroitin sulfate proteoglycan 8; epican; extracellular matrix receptor III; hematopoietic cell E- and L-selectin ligand; heparan sulfate proteoglycan; homing function and Indian blood group system; hyaluronate receptor; phagocytic glycoprotein 1
UniProt Protein Name	CD44 antigen
UniProt Gene Name	CD44
UniProt Synonym Gene Names	LHR; MDU2; MDU3; MIC4; ECMR-III; PGP-1; PGP-I
UniProt Entry Name	CD44_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.