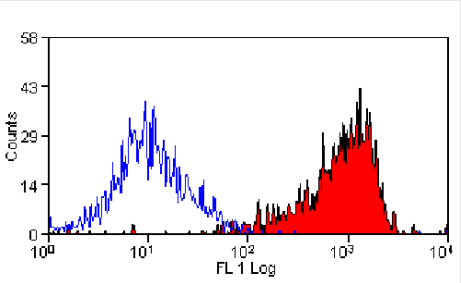
CD44 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD44, Monoclonal Antibody
Full Product Name	RAT ANTI DOG CD44
Product Gene Name	anti-CD44 antibody
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	YKIX337.8.7
Host	Rat
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.
Molecular Weight	38,066 Da
3D Structure	ModBase 3D Structure for Q28284
Perservative Stabilisers	0.09% Sodium Azide (NaN3) Preparation||Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Target Species	Dog
Applications Tested/Suitable for anti-CD44 antibody	Immunohistology Frozen, Flow cytometry (FC/FACS)
Application Notes for anti-CD44 antibody	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. **Flow Cytometry:** Minimum Dilution: 1/10; Maximum Dilution: 1/20
Related Product Information for anti-CD44 antibody	Rat anti Dog CD44 antibody, clone YKIX337.8.7 recognises canine CD44, also known as H-CAM, a single-pass type 1 membrane of approximately 90kDa expressed by most leucocytes and epithelial cells. CD44 expression is markedly increased upon cell activation (Alldinger et al. 2000).CD44 is involved in cell-cell, cell adhesion and cell migration and is the principal cellular receptor for hyaluronate via it's LINK domain, additionally CD44 also interacts with other ligands including collagens and metalloproteinases. Studies have demonstrated that altered CD44 expression is detected in a many forms of invasive and metasic cancers, CD44 expression has been observed on canine mammary and melanocytic tumours (Serra et al. 2004).
Other Notes	Small volumes of anti-CD44 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD44 purchase	MBS224592 is an antibody targeting CD44. Also known as RAT ANTI DOG CD44. Host: Rat.



Testing Data #1 of anti-CD44 antibody
Canine lymphocytes stained with Rat anti Canine CD44:Alexa FluorR488

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD44. It may not necessarily be applicable to this product.

NCBI GI #	2499844
NCBI GeneID	403939
NCBI Accession #	Q28284.1
UniProt Primary Accession #	Q28284
UniProt Related Accession #	Q28284
NCBI Official Full Name	CD44 antigen
NCBI Official Symbol	CD44
UniProt Protein Name	CD44 antigen
UniProt Synonym Protein Names	Extracellular matrix receptor-III; ECMR-III; GP90 lymphocyte homing/adhesion receptor; HUTCH-I; Hermes antigen; Hyaluronate receptor; Phagocytic glycoprotein 1; PGP-1; Phagocytic glycoprotein I; PGP-I; CD_antigen: CD44
Protein Family	CD44 antigen
UniProt Gene Name	CD44
UniProt Synonym Gene Names	ECMR-III; PGP-1; PGP-I
UniProt Entry Name	CD44_CANFA
NCBI Protein Information	CD44 antigen; ECMR-III; GP90 lymphocyte homing/adhesion receptor; HUTCH-I; PGP-1; PGP-I; extracellular matrix receptor-III; hermes antigen; hyaluronate receptor; phagocytic glycoprotein 1; phagocytic glycoprotein I
UniProt Comments for CD44	Receptor for hyaluronic acid (HA). Mediates cell-cell and cell-matrix interactions through its affinity for HA, and possibly also through its affinity for other ligands such as osteopontin, collagens, and matrix metalloproteinases (MMPs). Adhesion with HA plays an important role in cell migration, tumor growth and progression. In cancer cells, may play an important role in invadopodia formation. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. Receptor for LGALS9; the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function.
Research Articles on CD44	**1.** Immunohistochemistry was found to be a reliable technique for the detection of cancer stem cells in canine mammary neoplasms, and the frequency of these cells positively correlates with grades II and III tumors.
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