CD44 monoclonal antibody, clone DF 1485

Catalog # MAB5315 Size

Specification

Product Description	Mouse monoclonal antibody raised against native CD44.
Immunogen	CD44 antigen (PGp-1) purified from lymphocyte membrane.
Host	Mouse
Reactivity	Human
Specificity	HCAM, CD44 is a transmembrane glycoprotein which is expressed by lymphocytes and several normal epithelial cells. The CD44 molecule is involved in lymphocyte homing, T-lymphocyte actvitation, interaction with hyaluronic acid and may act as an adhesion molecule. Standard CD 44 (CD44s) is composed of the products of exons 1-5 a less favourable prognosis in gastrointestinal cancers, the loss of CD44s expression predicts unfavourable outcome in bladder cancers, squamous cell carcinomas of the skin, prostatic adenocarcinomas and neuroblastomas. In immunoblotting this antibody reacts with a glycoprotein isolated from hemopoietic cells and epithelials cells with a respective molecular weight of 29-37 and 51 kD.
Form	Liquid
Isotype	IgG1
Recommend Usage	Immunohistochemistry (1:5-1:10) The optimal working dilution should be determined by the end user.
Storage Buffer	In antibody solution (0.09% sodium azide).
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)

Gene Info — CD44

Entrez GeneID	960
Gene Name	CD44
Gene Alias	CDW44, CSPG8, ECMR-III, HCELL, IN, LHR, MC56, MDU2, MDU3, MGC10468, MIC4, MUTCH-I, Pgp1
Gene Description	CD44 molecule (Indian blood group)
Omim ID	107269
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq
Other Designations	CD44 antigen|CD44 antigen (homing function and Indian blood group system)|CDW44 antigen|GP90 lymphocyte homing/adhesion receptor|Hermes antigen|antigen gp90 homing receptor|cell adhesion molecule|cell surface glycoprotein CD44|chondroitin sulfate proteogl

Publication Reference

- Immunoexpression of claudins 4 and 7 among invasive breast carcinoma subtypes: A large diagnostic study using tissue microarray.

  Logullo AF, Pasini FS, Nonogaki S, Rocha RM, Soares FA, Brentani MM.

  Molecular and Clinical Oncology 2018 Oct; 9(4):377.

  Application: IHC-P, Human, Human mammary invasive carcinomas

Pathway

- ECM-receptor interaction
- Hematopoietic cell lineage

Disease

- Arthritis
- Breast Neoplasms
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Craniofacial Abnormalities
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Heart Defects
- Hepatitis B
- Kidney Failure
- Mouth Abnormalities
- Neoplasm Recurrence
- Neoplasms
- Ovarian Neoplasms