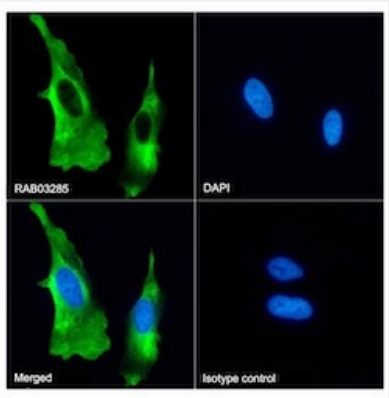
RecomAb™

CD44 recombinant monoclonal antibody, clone SAIC-01B-4D8

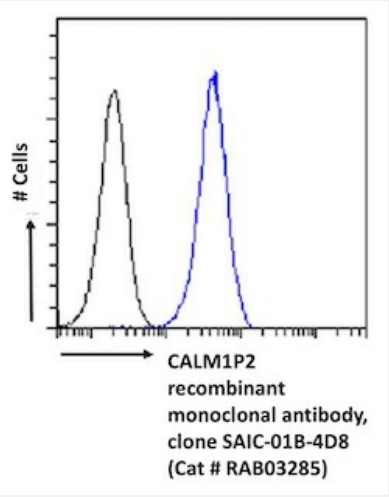
Catalog # RAB03285 Size 200 ug

Applications



Immunofluorescence

Immunofluorescent staining of HeLa cells with CD44 recombinant monoclonal antibody, clone SAIC-01B-4D8 (Cat # RAB03285).
HeLa cells stained with the chimeric r version of RAB03285 (1:100 dilution) for 1h followed by Alexa Fluor® 488 secondary antibody (1:1000 dilution)- showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right- top-bottom RAB03285- DAPI- merged channels and an isotype control. The isotype control was an unknown specificity antibody (3.0) followed by staining with Alexa Fluor® 488 secondary antibody.



Flow Cytometry

Flow cytometric analysis of HeLa cells with CD44 recombinant monoclonal antibody, clone SAIC-01B-4D8 (Cat # RAB03285).
HeLa cells permewith 0.5% Triton were stained with anti-unknown specificity antibody (3.0; isotype control- black line) or the r version of RAB03285 (blue line) at a dilution of 1:100 for 1h at RT. After washing- the bound antibody was detected using a goat anti-r AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CD44.
Antibody Species	Rabbit

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Immunogen	Original antibody is raised against peptide "TFIPVTSAK" derived from CD44, a hyaluronic acid receptor mediating cell-cell and cell-matrix interactions, conjugated to KLH.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Isotype	IgG kappa
Recommend Usage	ELISA Flow Cytometry Immunofluorescence Immuno-MRM (multiple reaction monitoring) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% Proclin 300)
Storage Instruction	Store at 4°C for 3 months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunofluorescence

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- Flow Cytometry

  Flow cytometric analysis of HeLa cells with CD44 recombinant monoclonal antibody, clone SAIC-01B-4D8 (Cat # RAB03285). HeLa cells permewith 0.5% Triton were stained with anti-unknown specificity antibody (3.0; isotype control- black line) or the r version of RAB03285 (blue line) at a dilution of 1:100 for 1h at RT. After washing- the bound antibody was detected using a goat anti-r AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

- Immuno-MRM (multiple reaction monitoring)

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

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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

Pathway

- ECM-receptor interaction
- Hematopoietic cell lineage

Disease

- Arthritis
- Breast Neoplasms
- Cardiovascular Diseases
- Cleft Lip

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- 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

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