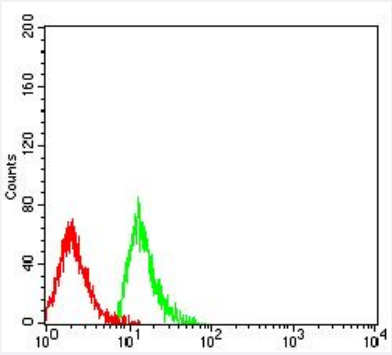
CLEC4M monoclonal antibody, clone 8A1B3

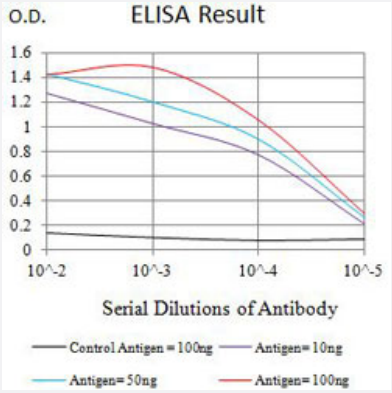
Catalog # MAB21450 Size 100 ug

Applications



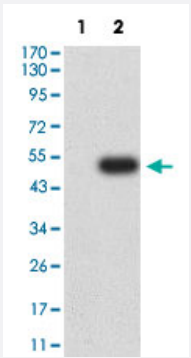
Flow Cytometry

Flow cytometric analysis of MOLT4 cells with CLEC4M monoclonal antibody, clone 8A1B3 (Cat # MAB21450) (Green). Red: Negative Control.



Enzyme-linked Immunoabsorbent Assay

ELISA analysis with CLEC4M monoclonal antibody, clone 8A1B3 (Cat # MAB21450).



Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: HEK293 and Lane 2: CLEC4M-hIgGFc transfected HEK293 cell lysates with CLEC4M monoclonal antibody, clone 8A1B3 (Cat # MAB21450).

Specification

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Product Description	Mouse monoclonal antibody raised against partial recombinant human CLEC4M.
Immunogen	Recombinant protein corresponding to amino acids 237-399 of human CLEC4M.
Host	Mouse
Theoretical MW (kDa)	45.4
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Flow Cytometry (1:200-1:400) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Flow cytometric analysis of MOLT4 cells with CLEC4M monoclonal antibody, clone 8A1B3 (Cat # MAB21450) (Green). Red: Negative Control.

- Enzyme-linked Immunoabsorbent Assay

  ELISA analysis with CLEC4M monoclonal antibody, clone 8A1B3 (Cat # MAB21450).

- Western Blot (Transfected lysate)

  Western Blot analysis of Lane 1: HEK293 and Lane 2: CLEC4M-hIgGFc transfected HEK293 cell lysates with CLEC4M monoclonal antibody, clone 8A1B3 (Cat # MAB21450).

Gene Info — CLEC4M

Entrez GeneID	10332
Protein Accession#	Q9H2X3

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Gene Name	CLEC4M
Gene Alias	CD209L, CD299, DC-SIGN2, DC-SIGNR, DCSIGNR, HP10347, L-SIGN, LSIGN, MGC129964, MGC47866
Gene Description	C-type lectin domain family 4, member M
Omim ID	605872
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a transmembrane receptor and is often referred to as L-SIGN because of its expression in the endothelial cells of the lymph nodes and liver. The encoded protein is involved in the innate immune system and recognizes numerous evolutionarily divergent pathogens ranging from parasites to viruses, with a large impact on public health. The protein is organized into three distinct domains: an N-terminal transmembrane domain, a tandem-repeat neck domain and C-type lectin carbohydrate recognition domain. The extracellular region consisting of the C-type lectin and neck domains has a dual function as a pathogen recognition receptor and a cell adhesion receptor by binding carbohydrate ligands on the surface of microbes and endogenous cells. The neck region is important for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. Variations in the number of 23 amino acid repeats in the neck domain of this protein are common and have a significant impact on ligand binding ability. This gene is closely related in terms of both sequence and function to a neighboring gene (GeneID 30835; often referred to as DC-SIGN or CD209). DC-SIGN and L-SIGN differ in their ligand-binding properties and distribution. Alternative splicing results in multiple variants
Other Designations	CD209 antigen-like|CD299 antigen|dendritic cell-specific ICAM-3-grabbing nonintegrin 2|liver/lymph node-specific ICAM-3 grabbing non-integrin|mannose binding C-type lectin DC-SIGNR

Disease

- Communicable Diseases
- Disease Susceptibility
- Genetic Predisposition to Disease
- Hepatitis C
- HIV Infections
- HIV Seropositivity
- Severe Acute Respiratory Syndrome
- Sexually Transmitted Diseases

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