

CD299 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2351
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human CD299 (AA: extra 237-399) expressed in E. Coli.
Mol wt	45.4kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB,FCM
Concentration	N/A
Full name	N/A
Synonyms	CLEC4M;LSIGN;CD209L;L-SIGN;DCSIGNR;HP10347;DC-SIGN2;DC-SIGNR

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

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.

Recommended Dilution

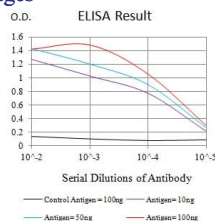
WB: 1:500 - 1:2000

FCM: 1:200 - 1:400

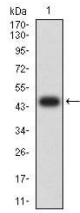
ELISA: 1:10000

Not yet tested in other applications.

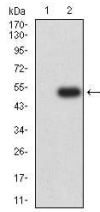
Images



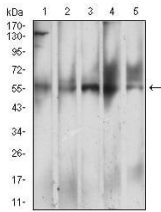
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



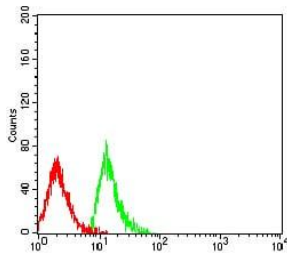
Western blot analysis using CD299 mAb against human CD299 (AA: extra 237-399) recombinant protein. (Expected MW is 44.9 kDa)



Western blot analysis using CD299 mAb against HEK293 (1) and CD299 (AA: extra 237-399)-hIgGFc transfected HEK293 (2) cell lysate.



Western blot analysis using CD299 mouse mAb against L-02 (1), HepG2 (2), BEL-7402 (3), SMMC-7702 (4), and HL-7702 (5) cell lysate.



Flow cytometric analysis of MOLT4 cells using CD299 mouse mAb (green) and negative control (red).

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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