

Rabbit Anti-Human C-type Lectin Domain Family 4, Member D Monoclonal Antibody

Cat. No. CAB11515RH Lot. No. (See product label)

SPECIFICATION

Product Overview Rabbit Monoclonal Antibody to Human C-type Lectin Domain Family 4, Member D

Species Human

Source Rabbit

Antigen Description C-type lectin domain family 4 member D, also known as C-type lectin superfamily member 8, C-type lectin-like receptor 6, CLEC4D and CLECSF8, is a single-pass type I I membrane protein which contains one C-type lectin domain. CLEC4D is expressed weakly in peripheral blood leukocytes, bone marrow and spleen. Expression of CLEC4D is confined mostly in monocytes and macrophage and seems to be up-regulated by IL-6, IL-10, TNF-alpha and IFN-gamma. CLEC4D contains one C-type lectin domain. A C-type lectin (CLEC) is a type of carbohydrate-binding protein domain known as a lectin. The C-type designation is from their requirement for calcium for binding. Proteins that contain C-type lectin domains have a diverse range of functions including cell-cell adhesion, immune response to pathogens and apoptosis. CLEC4D functions as an endocytic receptor. It may be involved in antigen uptake at the site of infection, either for clearance of the antigen, or for processing and further presentation to T cells.

Specificity Human CLEC4D. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.

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Immunogen	Recombinant Human CLEC4D Protein
Isotype	Rabbit IgG
Clone	A002
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human CLEC4D in WB. Using a DAB detection system, the detection limit for Human CLEC4D is approximately 1 ng/lane under non-reducing conditions and 0.25 ng/lane under reducing conditions. ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human CLEC4D. The detection limit for Human CLEC4D is approximately 0.00245 ng/well.
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human CLEC4D
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CLEC4D C-type lectin domain family 4, member D [Homo sapiens]
Official Symbol	CLEC4D

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Synonyms	CLEC4D; C-type lectin domain family 4, member D; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 8 , CLECSF8; C-type lectin domain family 4 member D; Mpcl; C-type lectin receptor; macrophage C-type lectin; C-type lectin-like receptor 6; C-type lectin superfamily member 8; C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 8; MCL; MPCL; CLEC6; CLEC-6; CLECSF8; MGC40078;
Gene ID	338339
mRNA Refseq	NM_080387
Protein Refseq	NP_525126
MIM	609964
UniProt ID	Q8WXI8
Chromosome Location	12p13.31
Function	binding; sugar binding;

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