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CLEC10A Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15484

Product Information

Application	WB
Primary Accession	Q8IUN9
Other Accession	NP_878910
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35446

Additional Information

Gene ID	10462
Alias Symbol	CLEC10A, CLECSF13, CLECSF14, HML,
Other Names	C-type lectin domain family 10 member A, C-type lectin superfamily member 14, Macrophage lectin 2, CD301, CLEC10A, CLECSF13, CLECSF14, HML
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 &mu, l of distilled water. Final Anti-CLEC10A antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	CLEC10A Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

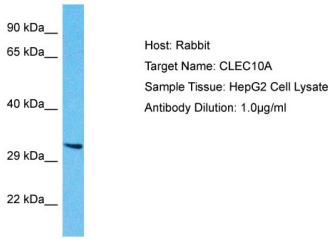
Name	CLEC10A {ECO:0000303|PubMed:33724805}
Function	C-type lectin receptor involved in recognition of N- acetylgalactosamine (GalNAc)-terminated glycans by myeloid antigen presenting cells (APCs) (PubMed:15802303, PubMed:16998493, PubMed:17616966, PubMed:22213806, PubMed:33724805, PubMed:8598452). Binds in a Ca(2+)-dependent manner to alpha- and beta-linked GalNAc residues on glycoprotein and glycolipid antigens, including alphaGalNAc- and Galbeta1->3GalNAc-O-Ser/Thr also known as Tn and T antigens, LacdiNAc epitope GalNAcbeta1->4GlcNAc and its derivative GalNAcbeta1->4-(Fucalpha1->3)GlcNAc, O-linked core 5 and 6 glycans, and GM2 and GD2 gangliosides (PubMed:15802303, PubMed:23507963). Acts as a signaling receptor at the interface of APC-T cell interactions. On immature

	dendritic cells, recognizes Tn antigen-carrying PTPRC/CD45 receptor on effector T cells and downregulates PTRPN/CD45 phosphatase activity with an impact on T cell activation threshold, cytokine production and proliferation. Modulates dendritic cell maturation toward a tolerogenic phenotype leading to generation of regulatory CD4- positive T cell subset with immune suppressive functions (PubMed:15802303, PubMed:16998493, PubMed:22213806). Acts as an endocytic pattern recognition receptor involved in antitumor immunity. During tumorigenesis, recognizes Tn antigens and its sialylated forms Neu5Ac-Tn and Neu5Gc-Tn expressed on tumor cell mucins. On immature dendritic cells, can internalize Tn-terminated immunogens and target them to endolysosomal compartment for MHC class I and II antigen presentation to CD8-positive and CD4-positive T cells, respectively (PubMed:15802303, PubMed:17616966, PubMed:17804752).
Cellular Location	Cell membrane; Single-pass type II membrane protein. Early endosome membrane; Single-pass type II membrane protein Lysosome membrane; Single-pass type II membrane protein. Note=Recycles between the plasma membrane and the endolysosomal compartment. Upon antigen binding, internalizes via endocytosis and then dissociates from antigen at acidic pH characteristic of endolysosomal vesicles
Tissue Location	Expressed in myeloid antigen presenting cells in lymph nodes and skin (at protein level). Expressed in dermal dendritic cells (at protein level).

References

Suzuki N.,et al.J. Immunol. 156:128-135(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Images



Host: Rabbit
Target Name: CLEC10A
Sample Tissue: HepG2 Whole cell lysate
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Antibody Dilution: 1.0µg/ml