

Recombinant Human CLEC10A, His-tagged

Cat. No. CLEC10A-7800H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CType Lectin Domain Family 10 Member A/CLEC10A is produced with our mammalian cells expression system in HEK293. The target protein is expressed with sequence (Gln61His316) of Human CLEC10A fused with a polyhistidine tag at the Cterminus.
Species	Human
Source	HEK293
Description	CType Lectin Domain Family 10 Member A (CLEC10A) is a type II transmembrane Ctype lectin that is expressed on immature myeloid dendritic cells and alternatively activated (tolerogenic) macrophages. CLEC10A/MGL binds and internalizes molecules with terminal nonsialylated GalNAc carbohydrates such as the Tn carcinoma antigen. CLEC10A/MGL also binds the GP envelope glycoprotein on Marburg and Ebola viruses and enhances viral entry and infectivity. It constitute a unique class of Ctype lectins because of their specificity for galactose and its structural homologues. CLEC10A is thought to participate in the recognition of molecules from both altered self and pathogens due to its monosaccharide specificity for Gal and Nacetylgalactosamine (GalNAc). Human and rat carry a single gene for CLEC10A/MGL, while mouse has two closely related MGL1 and MGL2 genes.
Form	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.4
AA Sequence	QNSKFQRDLV TLRTDFSNT SNTVAEIQAL TSQGSSLEET IASLKAEVEG

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FKQERQAGVS ELQEHTTQK AHLGHCPHCP SVCVPVHSEM LLRVQQLVQD
LKKLTCQVAT LNNNASTEGT C CPVNWVEH QDSCYWFSHS GMSWAEAEKY
CQLKNAHLVV INSREEQNFV QKYLGSAYTW MG LSDPEGA WKWVDGTDYA
TGFQNWKPGQ PDDWQGHGLG GGEDCAHFHP DGRWNDDVCQ RPY HWVCEA
GLGQTSQESH

Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Notes	For research use only.
Storage	Lyophilized protein should be stored at less than 20°C. though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C. for 2-7 days.Aliquots of reconstituted samples are stable at less than 20°C. for 3 months.

GENE INFORMATION

Gene Name	CLEC10A C-type lectin domain family 10, member A [Homo sapiens]
Official Symbol	CLEC10A
Synonyms	CLEC10A; C-type lectin domain family 10, member A; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 14 (macrophage derived) , CLECSF13, CLECSF14; C-type lectin domain family 10 member A; CD301; HML; HML2; macrophage lectin 2 (calcium dependent); C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 13 (macrophage-derived); C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 14 (macrophage-derived); MGL; CLECSF13; CLECSF14;
Gene ID	10462
mRNA Refseq	NM_006344

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Protein Refseq	NP_006335
MIM	605999
UniProt ID	Q8IUN9
Chromosome Location	17p13.2
Function	binding; sugar binding;

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