CLEC4F Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	CLEC4F, Recombinant Protein
Full Product Name	CLEC4F, Recombinant, Mouse (C-type Lectin Domain Family 4 Member F, C-type Lectin Superfamily Member 13, CLECSF13, C-type Lectin 13)
Product Gene Name	CLEC4F recombinant protein
Species Reactivity	Mouse
Form/Format	Supplied as a lyophilized powder in PBS. Reconstitute with sterile PBS to 0.1mg/ml.
Purity/Purification	Purified 85%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin 1EU.
Preparation and Storage	Lyophilized powder may be stored at 4 degree C for short-term only. Reconstitute to nominal volume by adding sterile PBS and store at -20 degree C. Reconstituted product is stable for 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	55kD
Chromosome Location	Chromosome: 2; NC_000002.11 (71035775..71047732, complement). Location: 2p13.3
3D Structure	ModBase 3D Structure for Q8N1N0
Product Categories/Family for CLEC4F recombinant protein	Molecular Biology; MB-Receptors
Applications Tested/Suitable for CLEC4F recombinant protein	Western Blot (WB)
Application Notes for CLEC4F recombinant protein	Suitable for use in Western Blot. Dilution: Western Blot: 55kD migrates as an ~ 65-85kD protein in SDS-PAGE under reducing conditions.
Related Product Information for CLEC4F recombinant protein	CLEC4F (C-type lectin domain; family 4, member F; also known as the Kupffer cell receptor and fucose receptor) is an 80kD, type II transmembrane glycoprotein member of the C-type lectin superfamily (1-3). Mature mouse CLEC4F consists of a 42 amino acid (aa) cytoplasmic domain, a 27 aa transmembrane segment, and a 479 aa extracellular domain (ECD) that contains an extended stalk region plus one carbohydrate recognition domain (4, 5). Within the ECD, mouse CLEC4F shares 48% and 79% aa sequence identity with human and rat CLEC4F, respectively. The stalk region of CLEC4F is a coiled coil domain that mediates homotrimer formation (6, 7). CLEC4F is expressed on Kupffer cells in the liver, but not on macrophages in other tissues (8). CLEC4F preferentially binds galactose and N-acetylgalactosamine in a calcium-dependent manner (6, 9, 10). Its activity at neutral, but not at acidic pH, suggests a capacity to internalize and release ligands into the endosomal system (11).
Other Notes	Small volumes of CLEC4F recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CLEC4F purchase	MBS638058 is a recombinant protein targeting CLEC4F. Also known as CLEC4F, Recombinant, Mouse (C-type Lectin Domain Family 4 Member F, C-type Lectin Superfamily Member 13, CLECSF13, C-type Lectin 13). Reactive in Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLEC4F. It may not necessarily be applicable to this product.

NCBI GI #	219518346

NCBI GeneID	165530
NCBI Accession #	AAI44653.1
UniProt Primary Accession #	Q8N1N0
UniProt Related Accession #	Q8N1N0
NCBI Official Full Name	CLEC4F protein
NCBI Official Synonym Full Names	C-type lectin domain family 4, member F
NCBI Official Symbol	CLEC4F
NCBI Official Synonym Symbols	KCLR; CLECSF13
UniProt Protein Name	C-type lectin domain family 4 member F
UniProt Synonym Protein Names	C-type lectin superfamily member 13
Protein Family	C-type lectin domain family
UniProt Gene Name	CLEC4F
UniProt Synonym Gene Names	CLECSF13; C-type lectin 13
UniProt Entry Name	CLC4F_HUMAN
NCBI Protein Information	C-type lectin domain family 4 member F; C-type lectin 13; C-type lectin superfamily member 13; C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 13
UniProt Comments for CLEC4F	CLEC4F: Receptor with an affinity for galactose and fucose. Could be involved in endocytosis. Protein type: Membrane protein, integral; Extracellular matrix Chromosomal Location of Human Ortholog: 2p13.3 Cellular Component: plasma membrane; integral to membrane Molecular Function: galactose binding; glycolipid binding Biological Process: endocytosis; NK T cell activation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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