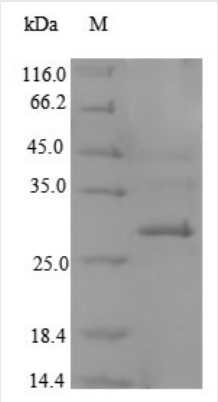
C-Type Lectin Domain Family 4 Member K (CD207) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	C-type lectin domain family 4 member K (Cd207), Recombinant Protein
Full Product Name	Recombinant Mouse C-type lectin domain family 4 member K (Cd207)
Product Gene Name	Cd207 recombinant protein
Product Synonym Gene Name	Cd207; Clec4k
Product Synonym Names	C-type lectin domain family 4 member K; Langerin; CD_antigen=; CD207
Sequence	QAVFYPRLMG KILDVKSDAQ MLKGRVDNIS TLGSDLKTER GRVDDAEVQM QIVNTTLKRV RSQILSLETS MKIANDQLQI LTMSWGEVDS LSAKIPELKR DLDKASALNT KVQGLQNSLE NVNKLLKQQS DILEMVARGW KYFSGNFYYF SRTPKTWYSA EQFCISRKAH LTSVSSESEQ KFLYKAADGI PHWIGLTKAG SEGDWYWVDQ TSFNKEQSRR FWIPGEPNNA GNNEHCANIR VSALKCWNDG PCDNTFLFIC KRPYVQTTE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	34.7 kDa
Sequence Positions	63-331aa; Extracellular Domain
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8VBX4
Species	Mus musculus (Mouse)
Product Categories/Family for Cd207 recombinant protein	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cd207 recombinant protein	Calcium-dependent lectin displaying mannose-binding specificity. Induces the formation of Birbeck granules (BGs); is a potent regulator of membrane superimposition and zippering. Binds to sulfated as well as mannosylated glycans, keratan sulfate (KS) and beta-glucans. Facilitates uptake of antigens and is involved in the routing and/or processing of antigen for presentation to T cells.
Other Notes	Small volumes of Cd207 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 Cd207 purchase	MBS1403009 is a recombinant protein targeting Cd207. Also known as Recombinant Mouse C-type lectin domain family 4 member K (Cd207). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of Cd207 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cd207. It may not necessarily be applicable to this product.

NCBI GI #	31560764
NCBI GeneID	246278
NCBI Accession #	NP_659192.2
UniProt Primary Accession #	Q8VBX4
UniProt Secondary Accession #	Q8R442
UniProt Related Accession #	Q8VBX4
GenBank Nucleotide #	NM_144943.3
NCBI Official Full Name	C-type lectin domain family 4 member K
NCBI Official Synonym Full Names	CD207 antigen
NCBI Official Symbol	Cd207
UniProt Protein Name	C-type lectin domain family 4 member K
UniProt Synonym Protein Names	Langerin; CD_antigen: CD207
Protein Family	C-type lectin domain family
UniProt Gene Name	Cd207
UniProt Synonym Gene Names	Clec4k
UniProt Entry Name	CLC4K_MOUSE
NCBI Protein Information	C-type lectin domain family 4 member K; langerin; Langerhans cell specific c-type lectin

UniProt Comments for Cd207	langerin: Calcium-dependent lectin displaying mannose-binding specificity. Induces the formation of Birbeck granules (BGs); is a potent regulator of membrane superimposition and zippering. Binds to sulfated as well as mannosylated glycans, keratan sulfate (KS) and beta-glucans. Facilitates uptake of antigens and is involved in the routing and/or processing of antigen for presentation to T cells. Major receptor on primary Langerhans cells for Candida species, Saccharomyces species, and Malassezia furfur. Protects against human immunodeficiency virus-1 (HIV-1) infection. Binds to high-mannose structures present on the envelope glycoprotein which is followed by subsequent targeting of the virus to the Birbeck granules leading to its rapid degradation. Homotrimer. Exclusively expressed by Langerhans cells. Expressed in astrocytoma and malignant ependymoma, but not in normal brain tissues. Protein type: Membrane protein, integral; Receptor, misc. Cellular Component: membrane; integral to plasma membrane; integral to membrane Molecular Function: carbohydrate binding Biological Process: defense response to virus
Research Articles on Cd207	**1.** TLR7-activated langerin(neg) dendritic cells trigger psoriatic plaque formation via IL-23-mediated activation of innate IL-17/IL-22-producing lymphocytes, independently of IFN-I.
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