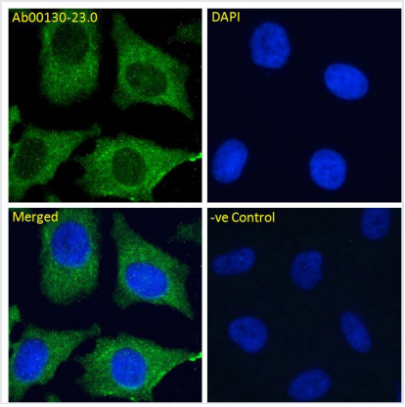
DC-SIGNR Recombinant Antibody

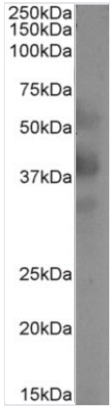
PRODUCT OVERVIEW

Product Name	DC-SIGNR, Recombinant Antibody
Full Product Name	Anti-DC-SIGNR [16E7]
Product Gene Name	DC-SIGNR recombinant antibody
Product Synonym Names	CD299; C-type lectin domain family 4 member M; CD209 antigen-like protein 1; DC-SIGN-related protein; CLEC4M; Dendritic cell-specific ICAM-3-grabbing non-integrin 2; DC-SIGN2; Liver/lymph node-specific ICAM-3-grabbing non-integrin; L-SIGN
Isotype	Rabbit IgG, kappa
Clone Number	16E7
Species Reactivity	Human
Purity/Purification	Protein A Affinity Purified
Specificity	Human CD299, which is an oligomeric type II transmembrane protein with a C-type lectin extracellular domain, the expression of which is restricted to immature DC, macrophages in the lung, and endothelial cells in the liver. It binds ICAM-3 and ICAM-7 to mediate the interaction of DC with T lymphocytes and endothelial cells in the initial stages of immune response and in the migratory behavior of DC. CD299 also binds the gp120 protein of HIV and the E2 envelope protein of HCV, thereby playing a role in viral infection.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.
Molecular Weight	24,408 Da
OMIM	AB015629 mRNA
3D Structure	ModBase 3D Structure for Q9H2X3
Animal-free Manufacturing Platform	The recombinant antibody is manufactured using a recombinant, mammalian HEK293-based expression platform. The manufacturing platform is animal-free and animal component-free.
Buffer Composition	PBS only with 0.02% Proclin 300.
Immunogen	CD299
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Product Categories/Family for DC-SIGNR recombinant antibody	Immunology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DC-SIGNR recombinant antibody	Flow Cytometry (FC/FACS), Immunohistochemistry (IHC)
Related Product Information for DC-SIGNR recombinant antibody	Recombinant monoclonal antibody to DC-SIGNR. Manufactured using a Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 16E7. This chimeric rabbit antibody was made using the variable domain sequences of the original murine IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Other Notes	Small volumes of DC-SIGNR recombinant antibody 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 DC-SIGNR purchase	MBS488088 is a recombinant antibody targeting DC-SIGNR. Also known as Anti-DC-SIGNR [16E7]. Reactive in Human.



Immunofluorescence (IF) of DC-SIGNR recombinant antibody
Immunofluoresence staining of fixed HeLa cells with anti-DC-SIGNR antibody 16E7 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton stained with the chimeric rabbit IgG version of 16E7 at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor 488 secondary antibody.



Western Blot (WB) of DC-SIGNR recombinant antibody
Western Blot using anti-DC-SIGNR (CLEC4M) antibody 16E7 Jurkat cell extract (35ug protein in RIPA buffer) was resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of 16E7 at 0.1 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected band size for DC-SIGNR is 45.3kDa, though 9 other isoforms of this protein are known ranging in size from 22.4-44.7kDa (Uniprot ID: Q9H2X3). DC-SIGNR is also glycosylated at several positions. as well as multiple other isoforms.

ADDITIONAL DETAILS

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

NCBI GI #	46395990
NCBI GeneID	10332
UniProt Primary Accession #	Q9H2X3
UniProt Secondary Accession #	Q69F40; Q969M4; Q96QP3; Q96QP4; Q96QP5; Q96QP6; Q9BXS3; Q9H2Q9; Q9H8F0; A6NKI4; A8K8B3
UniProt Related Accession #	Q9H2X3
NCBI Official Full Name	C-type lectin domain family 4 member M
NCBI Official Synonym Full Names	C-type lectin domain family 4 member M
NCBI Official Symbol	CLEC4M
NCBI Official Synonym Symbols	CD299; LSIGN; CD209L; L-SIGN; DCSIGNR; HP10347; DC-SIGN2; DC-SIGNR
UniProt Protein Name	C-type lectin domain family 4 member M
UniProt Synonym Protein Names	CD209 antigen-like protein 1; DC-SIGN-related protein; DC-SIGNR; Dendritic cell-specific ICAM-3-grabbing non-integrin 2; DC-SIGN2; Liver/lymph node-specific ICAM-3-grabbing non-integrin; L-SIGN; CD_antigen: CD299
UniProt Gene Name	CLEC4M
UniProt Synonym Gene Names	CD209L; CD209L1; CD299; DC-SIGNR; DC-SIGN2; L-SIGN
UniProt Entry Name	CLC4M_HUMAN
NCBI Protein Information	C-type lectin domain family 4 member M

NCBI Summary for DC-SIGNR	This gene encodes a transmembrane receptor and is often referred to as L-SIGN because of its expression in the endothelial cells of the lymph nodes and liver. The encoded protein is involved in the innate immune system and recognizes numerous evolutionarily divergent pathogens ranging from parasites to viruses, with a large impact on public health. The protein is organized into three distinct domains: an N-terminal transmembrane domain, a tandem-repeat neck domain and C-type lectin carbohydrate recognition domain. The extracellular region consisting of the C-type lectin and neck domains has a dual function as a pathogen recognition receptor and a cell adhesion receptor by binding carbohydrate ligands on the surface of microbes and endogenous cells. The neck region is important for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. Variations in the number of 23 amino acid repeats in the neck domain of this protein are common and have a significant impact on ligand binding ability. This gene is closely related in terms of both sequence and function to a neighboring gene (GeneID 30835; often referred to as DC-SIGN or CD209). DC-SIGN and L-SIGN differ in their ligand-binding properties and distribution. Alternative splicing results in multiple variants.[provided by RefSeq, Feb 2009]
UniProt Comments for DC-SIGNR	Probable pathogen-recognition receptor involved in peripheral immune surveillance in liver. May mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. Is a receptor for ICAM3, probably by binding to mannose-like carbohydrates.
Research Articles on DC-SIGNR	**1.** CD209L variation may influence susceptibility to HIV-1, response to treatment, and disease progression.
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