

DC-SIGNR recombinant antibody

Anti-DC-SIGNR [16E7]

CATALOG # AAA71932	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

DC-SIGNR; Anti-DC-SIGNR [16E7]; 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; DC-SIGNR recombinant antibody

PRODUCT SPECIFICATIONS

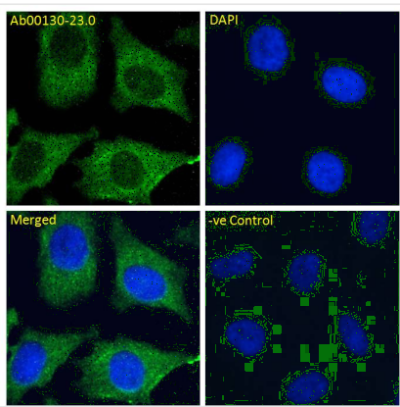
Reactivity	Human
Isotype	Rabbit IgG, kappa
Clone Number	16E7
Specificity	Human CD299, which is an oligomeric type II transmembrane protein with a C-type lectin extracellular domain, the expression of which is restricted to immature DC, macrophages in the lung, and endothelial cells in the liver. It binds 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.
Purity/Purification	Protein A Affinity Purified
Sequence Length	399
Applicable Applications for DC-SIGNR recombinant antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
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.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



WB (Western Blot)

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.



IF (Immunofluorescence)

Immunofluorescence 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.

ADDITIONAL INFORMATION

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.
Product Categories/Family for DC-SIGNR recombinant antibody	Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	46395990
NCBI GeneID	10332
UniProt Accession #	Q9H2X3; Q69F40; Q969M4; Q96QP3; Q96QP4; Q96QP5; Q96QP6; Q9BXS3; Q9H2Q9; Q9H8F0; A6NKI4; A8K8B3
Molecular Weight	24,408 Da
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
NCBI Protein Information	C-type lectin domain family 4 member M
UniProt Protein Name	C-type lectin domain family 4 member M
UniProt Gene Name	CLEC4M
UniProt Synonym Gene Names	CD209L; CD209L1; CD299; DC-SIGNR; DC-SIGN2; L-SIGN
UniProt Entry Name	CLC4M_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

