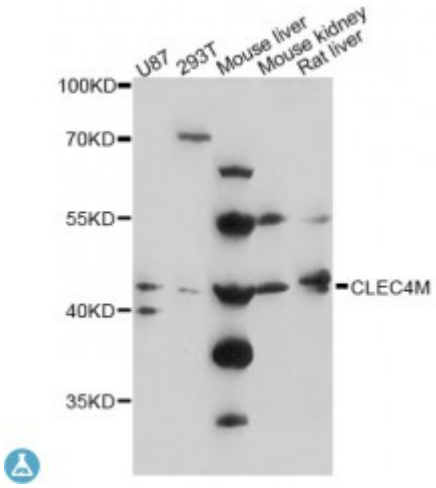
Anti-CLEC4M Antibody



Description	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.
Model	STJ116481
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 280-399 of human CLEC4M (NP_055072.3).

Gene ID	10332
Gene Symbol	CLEC4M
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Predominantly highly expressed in liver sinusoidal endothelial cells and in lymph node, Found in placental endothelium but not in macrophages, Expressed in type II alveolar cells and lung endothelial cells
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	C-type lectin domain family 4 member M 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
Molecular Weight	45.35 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:13523OMIM:605872
Alternative Names	C-type lectin domain family 4 member M 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
Function	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,
Cellular Localization	Cell membrane