Datasheet for ABIN2775394

anti-C-Type Lectin Domain Family 4, Member M (CLEC4M) (Middle Region) antibody

2 Images

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Overview

Quantity:	100 µL
Target:	C-Type Lectin Domain Family 4, Member M (CLEC4M)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Pig, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human CLEC4M
Sequence:	NRFSWMGLSD LNQEGTWQWV DGSPLSPSFQ RYWNSGEPNN SGNEDCAEFS
Predicted Reactivity:	Human: 100%, Mouse: 85%, Pig: 77%, Rabbit: 77%, Rat: 89%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against CLEC4M. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	C-Type Lectin Domain Family 4, Member M (CLEC4M)
Alternative Name:	CLEC4M (CLEC4M Products)

Target Details

Background:	CLEC4M is 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. It 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. Alias Symbols: CD209L, CD299, DC-SIGN2, DC-SIGNR, DCSIGNR, HP10347, L-SIGN, LSIGN, MGC129964, MGC47866 Protein Interaction Partner: TLR2, MME, CLEC4M, CD209, ICAM3, ITGAM, AP2M1, HCVgp1, Protein Size: 399
Molecular Weight:	45 kDa
Gene ID:	10332
NCBI Accession:	NM_014257, NP_055072
UniProt:	Q9H2X3

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 399 AA
Restrictions:	For Research Use only

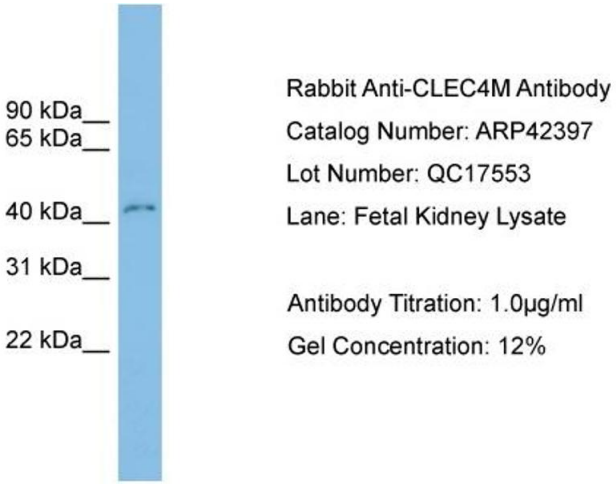
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

Handling

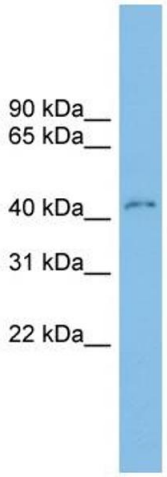
	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-CLEC4M Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: Human kidney



Western Blotting

Image 2. WB Suggested Anti-CLEC4M Antibody Titration: 0.2-1 ug/ml

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Positive Control: Human kidney