

Mouse Collectin-10 Antibody | anti-COLEC10 antibody

Collectin-10, Human, mAb 4F9D7

CATALOG #
AAA77811

HOST
Mouse

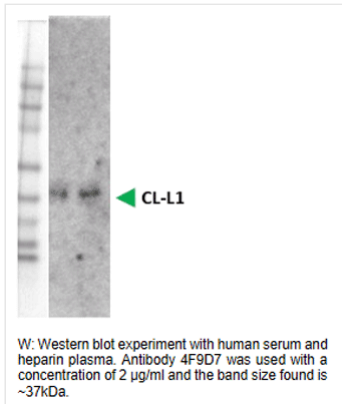
PRODUCT SYNONYMS

Collectin-10; Human; mAb 4F9D7; CL-L1; anti-COLEC10 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Isotype	IgG1
Purity/Purification	Protein G
Form/Format	0.2um filtered in PBS + 0.1% BSA + 0.02% NaN3 For unit size 0.5 mg or larger: PBS only (concentration< 0.5mg/ml)
Concentration	100ug/ml (varies by lot)
Cross Reactivity	CL-K1: No
Preparation and Storage	Store at 4°C.

IMAGES



WB (Western Blot)

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes								
No								
N.D.								

N.D. = Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-COLEC10 antibody	Antibody 4F9D7 recognizes human Collectin-10 (CL-L1). The complement system is the first line of defense against pathogens and important component of innate as well as adaptive immunity. It consists of three major pathways, the classical, alternative and lectin pathway. Each pathway is activated in a different way. The lectin pathway recognizes foreign carbohydrates structures via MBL, ficolins and collectins. CL-L1, CL-K1 (collectin kidney 1 / Collectin11) and CL-P1 (collectin placenta 1/ Collectin12) are the most recently discovered ones. CL-L1 and CL-K1 are quite homolog and have a classical collectin structure and they are highly conserved in mammals. Both CL-L1 and CL-K1 can bind to carbohydrate ligands and DNA of pathogens or on the membrane of damaged cells. They interact with MASPs and activate in a similar way to MBL and ficolins the lectin pathway. Native CL-L1 displays a calcium dependent binding pattern. A conformational change in carbohydrate recognition domain (CRD) is indicated when the calcium ion is removed by chelation with EDTA. Collectins share a common multimeric structure leading to varying degrees of oligomerization. The chains consist of a collagen-like region, an alpha helicon neck domain and a CRD. CL-L1 was originally found in hepatocytes but mRNA is also found in placenta, adrenal glands lung, small intestine and prostate. Initially it was thought to exist only as a cytoplasmic protein. Recent studies show that is also present in the circulation, either separately of in heteromeric complex with CL-K1. The average serum concentration is depending on the study, localisation and health status of the population. It is considered to be approximately 300ng/ml for healthy individuals. CL-L1 is encoded by a gene called COLEC10 on chromosome 8. A few polymorphisms have been identified which can lead to increase (up to 40%) of the CL-L1 serum concentration. In SLE patient CL-L1 levels are decreased by approximately 20%. High levels of CL-L1 are beneficial at time of kidney transplantation and is associated with increased long term overall mortality. Elevated levels have also been found in the early phase of acute liver failure and in cirrhosis. Due to (short) periods of microbial challenge fluctuations in CL-L1 in healthy individuals are seen in a given period. In plasma higher levels of CL-L1 are found than in serum (ca 30%).
Product Categories/Family for anti-COLEC10 antibody	Infectious diseases; Nephrology
References	1. Ingles, C et al; The pattern recognition molecule collectin-L1 in critically ill children. Pediatr Res 2016, 80:237.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1022943309
NCBI GeneID	10584
NCBI Accession #	NP_001311024.1
NCBI GenBank Nucleotide #	NM_001324095.1
UniProt Accession #	Q9Y6Z7; Q3SYH6; Q6UW19
NCBI Official Full Name	collectin-10 isoform 2
NCBI Official Synonym Full Names	collectin subfamily member 10
NCBI Official Symbol	COLEC10
NCBI Official Synonym Symbols	3MC3; CLL1; CL-34
NCBI Protein Information	collectin-10
UniProt Protein Name	Collectin-10
UniProt Gene Name	COLEC10
UniProt Synonym Gene Names	CLL1; CL-L1; CL-34

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.