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COLEC11 Rabbit pAb

Catalog # AP99650

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9BWP8
Other Accession	Q9BWP8
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28665
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from Human COLEC11(kidney)
Epitope Specificity	122-200/271
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the COLEC10/COLEC11 family. Contains 1 C-type lectin domain. Contains 1 collagen-like domain.
DISEASE	Defects in COLEC11 are the cause of 3MC syndrome type 2 (3MC2) [MIM:265050]. 3MC2 is an a disorder characterized by facial dysmorphism that includes hypertelorism, blepharophimosis, blepharoptosis and highly archedDE eyebrows, cleft lip and/or palate, craniosynostosis, learning disability and genital, limb and vesicorenal anomalies. The term 3MC syndrome includes Carnevale, Mingarelli, Malpuech, and Michels syndromes.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	COLEC11 is a 271 amino acid C-type lectin protein that contains a collagen-like domain and a carbohydrate recognition domain, and plays an important role in host-defense. COLEC11 binds to various sugars and LPS (lipopolysaccharides), which include fucose but does not bind to glucose, hnRNP, Beta-1,3-Gal-T3 or mannose. COLEC11 is ubiquitously expressed in most tissues with high expression in kidney, liver, fetal liver, small intestine, thymus, spinal cord, placenta, adrenal gland, pancreas and several cell lines. COLEC11 is a secreted protein and all alternatively spliced isoforms of COLEC11 have oligomeric structures created through disulfide bonding.

Additional Information

Gene ID	78989
Other Names	3MC2; CL-11; CL-K1-I; CL-K1-II; CL-K1-IIa; CL-K1-IIb; CLK1; COL11_HUMAN; COLEC11; Collectin kidney protein 1 (CL-K1); collectin subfamily member 11; Collectin K1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	COLEC11
Function	Lectin that plays a role in innate immunity, apoptosis and embryogenesis (PubMed:21258343, PubMed:23954398, PubMed:25912189). Calcium-dependent lectin that binds self and non-self glycoproteins presenting high mannose oligosaccharides with at least one terminal alpha-1,2-linked mannose epitope (PubMed:25912189). Primarily recognizes the terminal disaccharide of the glycan (PubMed:25912189). Also recognizes a subset of fucosylated glycans and lipopolysaccharides (PubMed:17179669, PubMed:25912189). Plays a role in innate immunity through its ability to bind non-self sugars presented by microorganisms and to activate the complement through the recruitment of MAPS1 (PubMed:20956340, PubMed:25912189). Also plays a role in apoptosis through its ability to bind in a calcium-independent manner the DNA present at the surface of apoptotic cells and to activate the complement in response to this binding (Probable). Finally, plays a role in development, probably serving as a guidance cue during the migration of neural crest cells and other cell types during embryogenesis (PubMed:21258343, PubMed:28301481).
Cellular Location	Secreted.
Tissue Location	Ubiquitous (PubMed:17179669). Detected in adrenal gland, kidney, liver, ovaries and testis (at protein level) (PubMed:20956340).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.