10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

COLEC12 Rabbit pAb

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Catalog # AP54303

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q5KU26
Predicted	Rat, Pig, Dog, Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81515
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human COLEC12
Epitope Specificity	31-130/742
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type II membrane protein. Note=Forms clusters on the cell surface.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Colec12 is a member of the C-lectin family, proteins that possess collagen-like sequences and carbohydrate recognition domains. Colec12 is a scavenger receptor that displays several functions associated with host defense. It promotes binding and phagocytosis of Gram-positive, Gram-negative bacteria and yeast and mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells.

Additional Information

Gene ID	81035
Other Names	Collectin-12, Collectin placenta protein 1, CL-P1, hCL-P1, Nurse cell scavenger receptor 2, Scavenger receptor class A member 4, Scavenger receptor with C-type lectin, COLEC12, CLP1, NSR2, SCARA4, SRCL
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	COLEC12
Synonyms	CLP1, NSR2, SCARA4, SRCL
Function	Scavenger receptor that displays several functions associated with host defense. Promotes binding and phagocytosis of Gram-positive, Gram-negative bacteria and yeast. Mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. Binds to several carbohydrates including Gal-type ligands, D-galactose, L- and D-fucose, GalNAc, T and Tn antigens in a calcium-dependent manner and internalizes specifically GalNAc in nurse-like cells. Also binds to sialyl Lewis X or a trisaccharide and asialo-orosomucoid (ASOR). May also play a role in the clearance of amyloid-beta in Alzheimer disease.
Cellular Location	Membrane; Single- pass type II membrane protein. Note=Forms clusters on the cell surface
Tissue Location	Expressed in perivascular macrophages. Expressed in plaques-surrounding reactive astrocytes and in perivascular astrocytes associated with cerebral amyloid angiopathy (CAA) in the temporal cortex of Alzheimer patient (at protein level). Strongly expressed in placenta. Moderately expressed in heart, skeletal muscle, small intestine and lung. Weakly expressed in brain, colon, thymus and kidney. Expressed in nurse-like cells. Expressed in reactive astrocytes and vascular/perivascular cells in the brain of Alzheimer patient

Background

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