

# COLEC12 Rabbit pAb

COLEC12 Rabbit pAb  
Catalog # AP54303

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, E
<b>Primary Accession</b>	<a href="#">Q5KU26</a>
<b>Predicted</b>	Human, Mouse, Rat, Dog, Pig, Rabbit
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	81515
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human COLEC12
<b>Epitope Specificity</b>	31-130/742
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Membrane; Single-pass type II membrane protein. Note=Forms clusters on the cell surface.
<b>SIMILARITY</b>	Contains 1 C-type lectin domain. Contains 3 collagen-like domains.
<b>SUBUNIT</b>	The extracellular domain forms a stable trimer. The extracellular domain interacts with fibrillar beta amyloid peptide.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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

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<b>Gene ID</b>	81035
<b>Other Names</b>	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
<b>Target/Specificity</b>	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.

<b>Dilution</b>	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
<b>Storage</b>	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

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<b>Name</b>	COLEC12
<b>Synonyms</b>	CLP1, NSR2, SCARA4, SRCL
<b>Function</b>	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.
<b>Cellular Location</b>	Membrane; Single- pass type II membrane protein. Note=Forms clusters on the cell surface
<b>Tissue Location</b>	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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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.

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