

COL12 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP18157a**Specification**

COL12 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q5KU26](#)**COL12 Antibody (N-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

COL12 Antibody (N-term) Blocking Peptide - 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. Binds also 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

COL12 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

COL12 Antibody (N-term) Blocking Peptide - Images

COL12 Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the C-lectin family, proteins that possess collagen-like sequences and carbohydraterecognition domains. This protein is a scavenger receptor, a cell surface glycoprotein that can bind to carbohydrate antigens on microorganisms facilitating their recognition and removal. In addition, these receptors can recognize oxidized phospholipids so they may also participate in removing oxidatively damaged or apoptotic cells.

COL12 Antibody (N-term) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Davila, S., et al. Genes Immun. 11(3):232-238(2010)Liu, Y., et al. Mol. Psychiatry (2010) In press :Samsen, A., et al. Eur. J. Cell Biol. 89(1):87-94(2010)Jang, S., et al. J. Biol. Chem. 284(6):3956-3965(2009)