

COL25A1 Polyclonal Antibody

Catalog No: YT1021

Reactivity: Human; Mouse

Applications: WB;IHC;IF;ELISA

Target: COL25A1

Fields: >>Protein digestion and absorption

Gene Name: COL25A1

Protein Name: Collagen alpha-1(XXV) chain

Q9BXS0

Q99MQ5

Human Gene Id: 84570

Human Swiss Prot

iuman Swiss From

No:

Mouse Gene Id: 77018

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

Collagen XXV alpha1. AA range:101-150

Specificity: COL25A1 Polyclonal Antibody detects endogenous levels of COL25A1 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

1/3



Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 64kD

Background: This gene encodes a brain-specific membrane associated collagen. A product of

proteolytic processing of the encoded protein, CLAC (collagenous Alzheimer amyloid plaque component), binds to amyloid beta-peptides found in Alzheimer amyloid plaques but CLAC inhibits rather than facilitates amyloid fibril elongation (PMID: 16300410). A study of over-expression of this collagen in mice, however, found changes in pathology and behavior suggesting that the encoded protein may promote amyloid plaque formation (PMID: 19548013). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Dec 2011],

Function: caution: The pyrrolidone carboxylic acid reported in PubMed:11927537 probably

formed artifactually from Glu-113 during the extraction procedure in 70% formic acid. In PubMed:15522881, the protein was found to have unblocked Glu at the N- $\,$

terminus.,function:Inhibits fibrillization of beta amyloid peptide during the

elongation phase. Has also been shown to assemble amyloid fibrils into protease-resistant aggregates. Binds heparin.,PTM:Glycosylated.,PTM:Hydroxylated on 11% of proline residues and 49% of lysine residues.,PTM:Undergoes proteolytic cleavage by furin protease to yield the soluble collagen-like Alzheimer amyloid plaque component.,similarity:Contains 7 collagen-like domains.,subcellular

location:After proteolytic cleavage, CLAC is secreted., subunit:Forms homodimers and homotrimers. Binds to the fibrillized forms of beta amyloid peptide 40 (beta-

APP40) and beta amyloid peptide 42 (b

Subcellular Membrane ; Single-pass type II membrane protein . After proteolytic cleavage,

Location : CLAC is secreted.

Expression: Expressed predominantly in brain. Deposited preferentially in primitive or neuritic

amyloid plaques which are typical of Alzheimer disease.

Sort : 4384

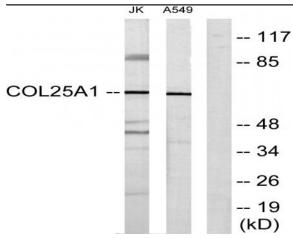
No4: 1

Host: Rabbit

Modifications: Unmodified

Products Images

2/3



Western blot analysis of lysates from Jurkat and A549 cells, using Collagen XXV alpha1 Antibody. The lane on the right is blocked with the synthesized peptide.