

**COL25A1 Polyclonal Antibody**

<b>Catalog No :</b>	YT1021
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	COL25A1
<b>Fields :</b>	>>Protein digestion and absorption
<b>Gene Name :</b>	COL25A1
<b>Protein Name :</b>	Collagen alpha-1(XXV) chain
<b>Human Gene Id :</b>	84570
<b>Human Swiss Prot No :</b>	Q9BXS0
<b>Mouse Gene Id :</b>	77018
<b>Mouse Swiss Prot No :</b>	Q99MQ5
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human Collagen XXV alpha1. AA range:101-150
<b>Specificity :</b>	COL25A1 Polyclonal Antibody detects endogenous levels of COL25A1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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

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**Observed Band :** 64kD

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**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],

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**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

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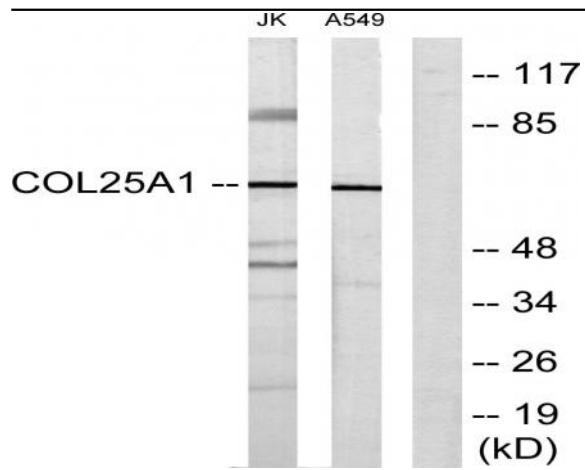
**Subcellular Location :** Membrane ; Single-pass type II membrane protein . After proteolytic cleavage, CLAC is secreted.

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**Expression :** Expressed predominantly in brain. Deposited preferentially in primitive or neuritic amyloid plaques which are typical of Alzheimer disease.

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## Products Images



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.