

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Collagen XXV α 1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) COL1A1, rhCOL3A1, rhCOL4A1, rhCOL13A1, rhCOL23A1 and recombinant mouse COL13A1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 540802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Collagen XXV α 1 Gly189-Lys654 Accession # NP_942014
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Collagen XXV (Collagen 25 alpha 1 chain; also CLAC-P) is a neuronal, 65-75 kDa member of the Collagenous transmembrane (TM) subfamily of the Collagen protein family. It is synthesized as a 654 amino acid (aa) type II TM glycoprotein that contains a 33 aa cytoplasmic region (aa 1-33) and a 600 aa extracellular domain (ECD) (aa 55-654). The ECD contains seven Collagen-like domains. Furin cleavage between Arg112-Glu113 generates a 70 kDa soluble fragment that homotrimerizes and binds to early A β amyloid deposits. There are at least five multiple splice forms that impact the ECD. Amino acids 139-146 and the seventh Collagen-like domain (aa 571-630) are most often affected. Over aa 189-654, human COL25A1 is 95% aa identical to mouse COL25A1.

PRODUCT SPECIFIC NOTICES

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