

DESCRIPTION

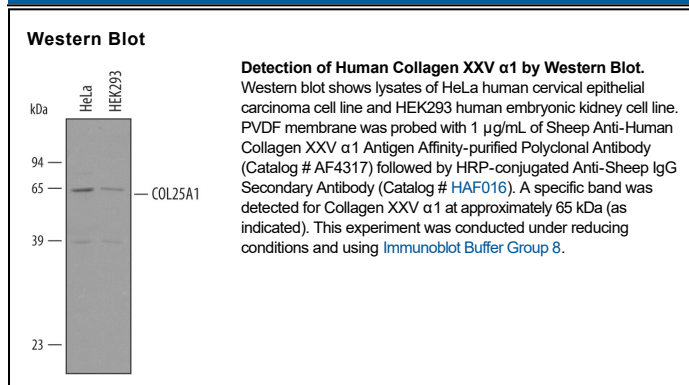
Species Reactivity	Human
Specificity	Detects human Collagen XXV α 1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 2% cross-reactivity with recombinant human COL23A1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Collagen XXV α 1 Gly189-Lys654 Accession # NP_942014
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^{\circ}$ C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 $^{\circ}$C as supplied. • 1 month, 2 to 8 $^{\circ}$C under sterile conditions after reconstitution. • 6 months, -20 to -70 $^{\circ}$C under sterile conditions after reconstitution.

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.