

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Mimecan in Western blots. In Western blots, approximately 10% cross-reactivity with recombinant mouse Mimecan is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Mimecan Ala20-Phe298 Accession # P20774
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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	0.1 µg/mL	Recombinant Human Mimecan

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mimecan, also known as KSPG25 (25 kDa Keratan Sulfate Proteoglycan) and Osteoglycin, is an extracellular matrix protein belonging to the class III subfamily of the small leucine rich proteoglycan (SLRP) family. SLRPs are characterized by leucine-rich repeats in the central domain, which is flanked by N- and C-terminal cysteine-rich domains. The core proteins contain N-linked oligosaccharides as well as glycosaminoglycan side chains. Mimecan is synthesized as a preproprotein that is processed to generate proteins of different sizes including Osteoglycin (containing 93 most C-terminal amino acid residues) and Mimecan (containing 223 most C-terminal residues). Human Mimecan shares approximately 85% amino acid sequence homology with the mouse or rat Mimecan.