

DESCRIPTION

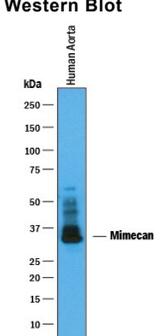
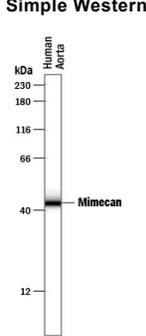
Species Reactivity	Human
Specificity	Detects human Mimecan in direct ELISAs and Western blots. In these formats, approximately 5% cross-reactivity with recombinant mouse Mimecan is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Mimecan Ala20-Phe298 Accession # P20774
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm 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 µg/mL	See Below
Simple Western	10 µg/mL	See Below

DATA

Western Blot	Simple Western
 <p>Detection of Human Mimecan by Western Blot. Western blot shows lysates of human aorta tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human Mimecan Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2660) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for Mimecan at approximately 34 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	 <p>Detection of Human Mimecan by Simple Western™. Simple Western lane view shows lysates of human heart (aorta) tissue, loaded at 0.2 mg/mL. A specific band was detected for Mimecan at approximately 44 kDa (as indicated) using 10 µg/mL of Goat Anti-Human Mimecan Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2660) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p>

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 °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 °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.