

DESCRIPTION

Species Reactivity	Human
Specificity	Detects recombinant human Tenascin X isoform 2 in direct ELISAs and human Tenascin X in Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Tenascin R is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Tenascin X isoform 2 Met1-Gly673 Accession # AAH33740
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.

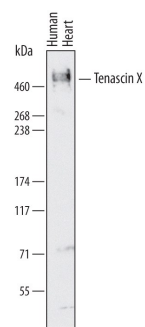
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below
Simple Western	50 µg/mL	See Below

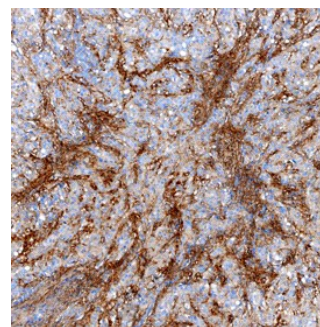
DATA

Western Blot



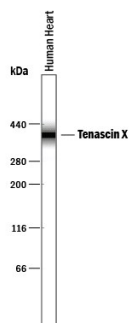
Detection of Human Tenascin X by Western Blot. Western blot shows lysates of human heart tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human Tenascin X Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6999) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Tenascin X at approximately 470 kDa (as indicated). This experiment was conducted under reducing conditions and using *Immunoblot Buffer Group 1*.

Immunohistochemistry



Tenascin X in Human Lung Mesothelioma. Tenascin X was detected in immersion fixed paraffin-embedded sections of human lung mesothelioma using Sheep Anti-Human Tenascin X Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6999) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to stromal cells. View our protocol for *Chromogenic IHC Staining of Paraffin-embedded Tissue Sections*.

Simple Western



Detection of Human Tenascin X by Simple Western™. Simple Western lane view shows lysates of human heart tissue, loaded at 0.2 mg/mL. A specific band was detected for Tenascin X at approximately 400 kDa (as indicated) using 50 µg/mL of Sheep Anti-Human Tenascin X Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6999) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 66-440 kDa separation system.



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

Tenascin-XB2 (TN-XB2; also TN-XB-Short/S and tenascin-X isoform 2) is a 73-75 kDa member of the tenascin family of extracellular matrix molecules. It is expressed by adrenal gland, and represents the use of an intronic promoter that is tied to an internal start site within the TN-XB gene. A duplication of the TN-XB2 region has created a gene called TN-XA that codes for the same ORF but is not translated. Although TN-XB2 has been reported to bind to tropoelastin, plus collagens I, III and V, other studies using soluble fragments of TN-XB report only tropoelastin interaction. Human TN-XB2 is 673 amino acids (aa) in length. It contains four fibronectin type III repeats (aa 82-442), and one C-terminal fibrinogen-like globular region (aa 449-664). Antibodies to TN-XB2 recognize full-length 465 kDa Tenascin X (TN-XB), 75 kDa and 140-150 kDa C-terminal fragments. Although human TN-XB2 shares 84% aa identity with full-length mouse TN-XB in its C-terminus, there does not appear to be an equivalent alternative start site in the mouse gene.