

DESCRIPTION

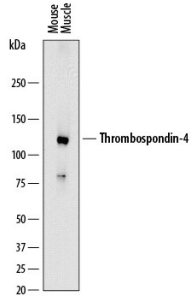
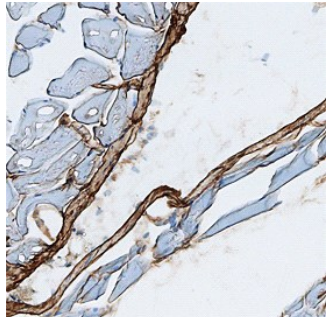
Species Reactivity	Mouse
Specificity	Detects mouse Thrombospondin-4 in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with recombinant human Thrombospondin-4 is observed, and less than 1% cross-reactivity with recombinant mouse Thrombospondin-1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Thrombospondin-4 Thr29--Asn963 Accession # Q9Z1T2
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

DATA

<p>Western Blot</p>  <p>Detection of Mouse Thrombospondin-4 by Western Blot. Western blot shows lysates of mouse muscle tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse Thrombospondin-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7860) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Thrombospondin-4 at approximately 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>Thrombospondin-4 in Mouse Skeletal Muscle. Thrombospondin-4 was detected in perfusion fixed frozen sections of mouse skeletal muscle using Sheep Anti-Mouse Thrombospondin-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7860) at 5 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 connective tissue. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>
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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

Mouse Thrombospondin-4 (TSP-4) is a 120-130 kDa adhesive glycoprotein that belongs to the thrombospondin family of proteins. It is 963 amino acids (aa) in length and highly modular in structure, containing one Lamnin G-like domain, four EGF-like domains and eight type 3 TSP domains. It circulates as a disulfide-linked homopentamer, and is up-regulated in the heart in response to ischemic injury and pathology. Mature mouse TSP-4 is 93% aa identical to human TSP4.