

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Progranulin in direct ELISAs and Western blots. In Western blots, approximately 15% cross-reactivity with recombinant human Progranulin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Progranulin Thr18-Leu589 Accession # P28798
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.

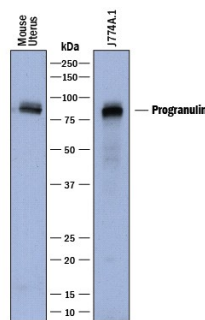
APPLICATIONS

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	0.5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

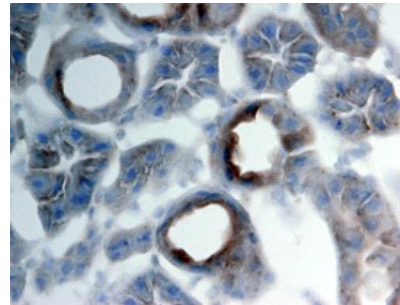
DATA

Western Blot



Detection of Mouse Progranulin/PGRN by Western Blot. Western blot shows lysates of mouse uterus tissue and J774A.1 mouse reticulum cell sarcoma macrophage cell line. PVDF membrane was probed with 0.5 µg/mL of Sheep Anti-Mouse Progranulin/PGRN Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2557) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Progranulin/PGRN at approximately 85-90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Progranulin in Mouse Kidney. Progranulin was detected in immersion fixed frozen sections of mouse kidney using Sheep Anti-Mouse Progranulin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2557) 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). View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

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 Progranulin, also known as Proepithelin, PC Cell-derived Growth Factor and Acrogranin, is a secreted protein of 572 amino acid residues. It contains seven and one half granulin repeats which are characterized by 6 disulfide bridges. Progranulin can be converted in vivo to granulins by proteolysis. Progranulin is a mitogen that stimulates proliferation and survival of various epithelial, mesenchymal and tumor cells. Several granulins have also been shown to be biologically active and may play a role in inflammation and wound healing. Mouse Progranulin shares 86% and 75% amino acid sequence homology with rat and human Progranulin, respectively.