

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 either lyophilized or as a 0.2 µm filtered solution in PBS.

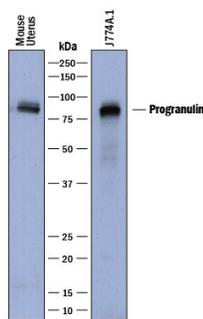
APPLICATIONS

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

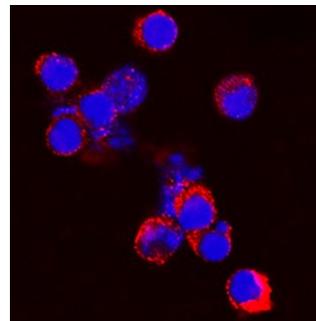
DATA

Western Blot



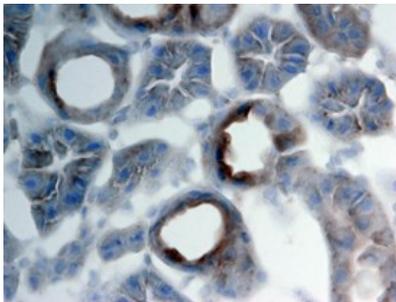
Detection of Mouse Progranulin/PGRN by Western Blot. Western blot shows lysates of mouse uterus tissue and J774A.1 mouse reticulum cell sarcoma macrophage cell line. PVDF membrane was probed with 0.5 µg/mL of Sheep Anti-Mouse Progranulin/PGRN Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2557) 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 Immoblot Buffer Group 1.

Immunocytochemistry



Progranulin/PGRN in Mouse Splenocytes. Progranulin/PGRN was detected in immersion fixed mouse splenocytes using Sheep Anti-Mouse Progranulin/PGRN Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2557) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

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.