

DESCRIPTION

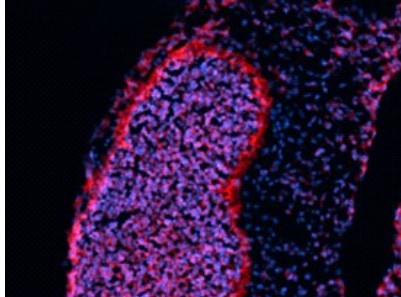
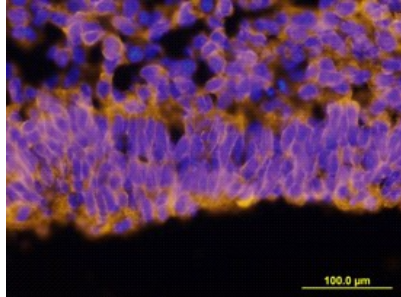
Species Reactivity	Mouse
Specificity	Detects mouse and human PRTG in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse PRTG Val24-Thr943 Accession # Q2EY15
Formulation	Lyophilized from a 0.2 µm filtered solution 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	0.1 µg/mL	Recombinant Mouse Protogenin
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Immunohistochemistry</p>  <p>Protogenin in Embryonic Mouse Neural Tube. Protogenin was detected in immersion fixed frozen sections of embryonic mouse neural tube (E9) using 10 µg/mL Sheep Anti-Mouse Protogenin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4919) overnight at 4 °C. Tissue was stained with the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.</p>	<p>Immunohistochemistry</p>  <p>Protogenin in Mouse Neural Tube. Protogenin was detected in immersion fixed frozen sections of mouse neural tube (E9.5) using Sheep Anti-Mouse Protogenin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4919) at 10 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (yellow; Catalog # NL010) and counterstained with DAPI (blue). View our protocol for Fluorescent 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

Protogenin (Early/proto in expression, neogenin-like; also Prtg) is a 130 kDa (predicted), type I transmembrane member of the DCC/Neogenin family of proteins. It is expressed in mouse presomitic mesoderm, paraxial mesoderm, and neural tube. Mature mouse protogenin is 1168 amino acids (aa) in length. It contains a 920 aa extracellular domain (ECD) (aa 24-943) plus a 224 aa cytoplasmic region. The ECD contains four consecutive Ig-like domains (aa 24-405), followed by five sequential fibronectin type III domains (aa 413-908). The ECD of mouse protogenin shares 98%, 87%, and 93% aa sequence identity with the ECD of rat, chick, and human protogenin, respectively.