Mouse Protogenin Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4919

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 as a 0.2 μm filtered solution in PBS.

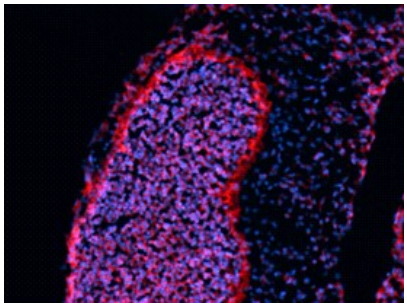
APPLICATIONS

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

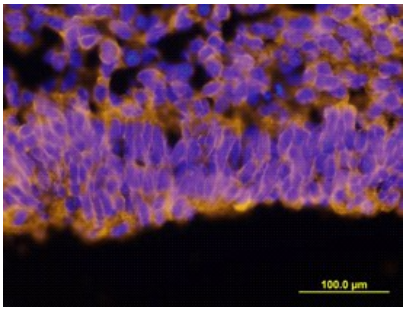
DATA

Immunohistochemistry



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.

Immunohistochemistry



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.

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.** ● 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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956