

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse and human Protogenin in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Protogenin Val24-Thr943 Accession # Q2EY15
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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.