

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                            |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse and human PRTG in Western blots.                                                   |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                             |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                        |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant mouse PRTG<br>Val24-Thr943<br>Accession # Q2EY15 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                  |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                     |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                  |

#### 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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.

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