

Product datasheet

Rho-Guanine Exchange Factor Goat Polyclonal Antibody

SKU: MM-0193-P

100 µg

Overview

Target

Rho-Guanine Exchange Factor

Target background

The human Rho guanine nucleotide exchange factor (RGNEF) is a homolog of mouse p190RhoGEF that has been recently identified as a novel human NFL mRNA binding protein in Amyotrophic Lateral Sclerosis (ALS) affected spinal cords. ALS - also known as Charcot's Disease, Lou Gehrig's disease and Motor Neuron Disease – is a rapidly progressive, and fatal, neuromuscular disease characterized by the gradual degeneration and death of motor neurons in the brain and spinal cord, which lead to progressive paralysis of the muscles.

Target alias

RGNEF

Immunogen

Peptide within the RNA binding domain of RNEGF

Specificity

The antibody recognizes a sequence on the RNA binding domain of human Rho-Guanine Nucleotide Exchange Factor (RGNEF) isoforms A and B. Competition test were done with a blocking peptide identical to the one used during immunization

Clone ID

Preservative

None

Format

Lyophilized immunogen affinity purified in PBS pH7.4

Recommend starting dilution

If reconstituted with deionized water in 100 µl: IP: 1µg/ml, IF: 1:100, IHC: 1:100-1:500. Optimal dilution has to be determined by the user.

Limitations

Research Use Only

Storage

Lyophilized antibodies can be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage (2 years). To avoid freeze-thaw cycles, reconstituted antibodies should be aliquoted before freezing for long-term (1 year) storage (-80°C) or kept at 4°C for short-term usage (2 months). For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made with the assay buffer. After the maximum long-term storage period (2 years lyophilized or 1 year reconstituted) antibodies should be tested in your assay with a standard sample to verify if you have noticed any decrease in their efficacy. To limit antibody loss or degradation, BSA (final concentration 1%) and sodium azide (final concentration 0.02%) can be added to the suggested first dilution. It is important to first verify if those preservatives are compatible with your assay.

References

- [1. Cristian A Droppelmann - Rho guanine nucleotide exchange factor is an NFL mRNA destabilizing factor that forms cytoplasmic inclusions in amyotrophic lateral sclerosis](#)
- [2. Brian A Keller - Co-aggregation of RNA binding proteins in ALS spinal motor neurons: evidence of a common pathogenic mechanism](#)