

# Produktinformation



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# GRP1 (m): 293T Lysate: sc-120646



The Power to Question

#### **BACKGROUND**

GRP1 (general receptor for phosphoinositides-1) contains a Pleckstrin homology (PH) domain as well as a Sec7 domain. The PH domain has high binding affinity for phosphatidylinositol 3,4,5-trisphosphate (Ptdlns(3,4,5)P3), while the Sec7 homology domain is responsible for catalyzing guanine nucleotide exchange of ADP-ribosylation factor (ARF) proteins. GRP1 co-localizes with ARF6 and catalyzes GTP/GDP exchange on ARF6. It is known to interact with Ptdlns(3,4,5)P3 localized to the plasma membrane *in vitro* and may also be a Ptdlns(3,4,5)P3 receptor. Additionally, GRP1 may regulate protein sorting and membrane trafficking through interaction with the guanosine triphosphate ARF, and may control cell adhesion through interaction with integrins.

## **REFERENCES**

- Klarlund, J.K., et al. 1997. Signaling by phosphoinositide-3,4,5-trisphosphate through proteins containing Pleckstrin and Sec7 homology domains. Science 275: 1927-1930.
- Klarlund, J.K., et al. 1998. Regulation of GRP1-catalyzed ADP ribosylation factor guanine nucleotide exchange by phosphatidylinositol 3,4,5-trisphosphate. J. Biol. Chem. 273: 1859-1862.
- Venkateswarlu. K., et al. 1998. Nerve growth factor- and epidermal growth factor-stimulated translocation of the ADP-ribosylation factor-exchange factor GRP1 to the plasma membrane of PC12 cells requires activation of phosphatidylinositol 3-kinase and the GRP1 pleckstrin homology domain. Biochem. J. 335: 139-146.
- Langille, S.E., et al. 1999. ADP-ribosylation factor 6 as a target of guanine nucleotide exchange factor GRP1. J. Biol. Chem. 274: 27099-27104.

## CHROMOSOMAL LOCATION

Genetic locus: Cyth3 (mouse) mapping to 5 G2.

# **PRODUCT**

GRP1 (m): 293T Lysate represents a lysate of mouse GRP1 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

# **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

GRP1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GRP1 antibodies. Recommended use:  $10-20 \mu l$  per lane.

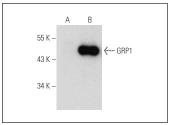
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

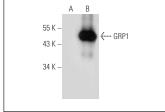
GRP1 (E-8): sc-271740 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse GRP1 expression in GRP1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

### **DATA**





GRP1 (E-8): sc-271740. Western blot analysis of GRP1 expression in non-transfected: sc-117752 (**A**) and mouse GRP1 transfected: sc-120646 (**B**) 293T whole cell lysates.

GRP1 (A-3): sc-271741. Western blot analysis of GRP1 expression in non-transfected: sc-117752 (**A**) and mouse GRP1 transfected: sc-120646 (**B**) 293T whole cell Ivsates.

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

### **PROTOCOLS**

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