**BACKGROUND**

Epidermal growth factor (EGF) mediates its growth-promoting effects through its interaction with a 170 kDa cell surface glycoprotein designated the epidermal growth factor receptor (EGFR). Binding of epidermal growth factor to its cognate receptor activates a tyrosine kinase activity, intrinsic to the EGF receptor. ZPR1 is a zinc finger-containing protein that is capable of binding to the intracellular tyrosine kinase domain of the epidermal growth factor receptor. Stimulation of mammalian cells with epidermal growth factor reduces ZPR1 affinity for the EGFR and leads to an accumulation of the protein in the nucleus. The ZPR1 zinc finger is necessary for its association with the EGFR.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ZNF259 (human) mapping to 11q23.3; Zfp259 (mouse) mapping to 9 A5.2.

**SOURCE**

ZPR1 (LG1) is a mouse monoclonal antibody raised against ZPR1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

ZPR1 (LG1) is recommended for detection of ZPR1 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:1000-1:10000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for ZPR1 siRNA (h): sc-35282, ZPR1 siRNA (m): sc-35283, ZPR1 shRNA Plasmid (h): sc-35282-SH, ZPR1 shRNA Plasmid (m): sc-35283-SH, ZPR1 shRNA (h) Lentiviral Particles: sc-35282-V and ZPR1 shRNA (m) Lentiviral Particles: sc-35283-V.

Molecular Weight of ZPR1: 50 kDa.

Positive Controls: ZPR1 (m): 293T Lysate: sc-124831 or NIH/3T3 whole cell lysate: sc-2210.

**RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000). 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2033 (dilution range: 0.5 µl agarose/2.0 µl). 3) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2033 and Western Blotting Luminol Reagent: sc-2048. 4) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2033 (dilution range: 0.5 µl agarose/2.0 µl).

**DATA**

ZPR1 (LG1): sc-53554. Western blot analysis of ZPR1 expression in non-transfected: sc-117752 (A) and mouse ZPR1 transfected sc-124831 (B) whole cell lysates.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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