**ZPR1 (C-1): sc-398241**

**PRODUCT**

Each vial contains 200 µg IgG_{κ} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-398241 X, 200 µg/0.1 ml.

ZPR1 (C-1) is available conjugated to agarose (sc-398241 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398241 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398241 PE), fluorescein (sc-398241 FITC), Alexa Fluor® 488 (sc-398241 AF488), Alexa Fluor® 546 (sc-398241 AF546), Alexa Fluor® 594 (sc-398241 AF594) or Alexa Fluor® 647 (sc-398241 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM, and to either Alexa Fluor® 680 (sc-398241 AF680) or Alexa Fluor® 790 (sc-398241 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-398241 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**REFERENCES**


**BACKGROUND**

Epidermal growth factor (EGF) mediates its growth-promoting effects through its interaction with a 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 EGFR. 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.

**CHROMOSOMAL LOCATION**

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

**SOURCE**

ZPR1 (C-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 430-459 at the C-terminus of ZPR1 of mouse origin.

**APPLICATIONS**

ZPR1 (C-1) is recommended for detection of ZPR1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

ZPR1 (C-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZPR1: 50 kDa.

Positive Controls: ZPR1 (m): 293T Lysate: sc-124831, NIH/3T3 whole cell lysate: sc-2210 or Jurkat whole cell lysate: sc-2204.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Lumino Reagent: sc-2048.
2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

ZPR1 (C-1): sc-398241. Western blot analysis of ZPR1 expression in non-transfected 293T: sc-124831 (B), NIH/3T3 (C), Jurkat (D), MCF7 (E) and A-431 (F) whole cell lysates.

**STORAGE**

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

**RESEARCH USE**

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