

ZPR1 (m): 293T Lysate: sc-124831

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 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

1. Savage, C.R., Jr., et al. 1972. The primary structure of epidermal growth factor. *J. Biol. Chem.* 247: 7612-7621.
2. Reynolds, F.H., Jr., et al. 1981. Human transforming growth factors induces tyrosine phosphorylation of EGF receptors. *Nature* 292: 259-262.
3. Hunter, T. 1984. The epidermal growth factor receptor gene and its product. *Nature* 311: 414-416.
4. Gregory, H. 1985. *In vivo* aspects of urogastrone-epidermal growth factor. *J. Cell Sci. Suppl.* 3: 11-17.
5. Carpenter, G., et al. 1986. Epidermal growth factor, its receptor and related proteins. *Exp. Cell Res.* 164: 1-10.
6. Carpenter, G. 1987. Receptors for epidermal growth factor and other polypeptide mitogens. *Annu. Rev. Biochem.* 56: 881-914.
7. Galcheva-Gargova, Z., et al. 1996. Binding of zinc finger protein ZPR1 to the epidermal growth factor receptor. *Science* 272: 1797-1802.

CHROMOSOMAL LOCATION

Genetic locus: Zpr1 (mouse) mapping to 9 A5.2.

PRODUCT

ZPR1 (m): 293T Lysate represents a lysate of mouse ZPR1 transfected 293T cells and is provided as 100 µg protein in 200 µl 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

ZPR1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ZPR1 antibodies. Recommended use: 10-20 µl per lane.

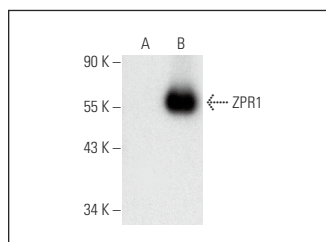
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZPR1 (C-1): sc-398241 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ZPR1 expression in ZPR1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

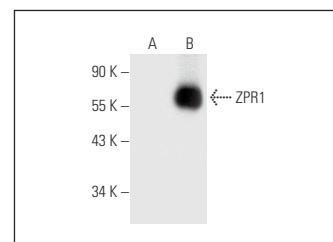
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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 Luminol Reagent: sc-2048.

DATA



ZPR1 (C-1): sc-398241. Western blot analysis of ZPR1 expression in non-transfected: sc-117752 (A) and mouse ZPR1 transfected: sc-124831 (B) 293T whole cell lysates.



ZPR1 (B-12): sc-398491. Western blot analysis of ZPR1 expression in non-transfected: sc-117752 (A) and mouse ZPR1 transfected: sc-124831 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.