

Egr-3 (C-24): sc-191

BACKGROUND

Egr-1, Egr-2, Egr-3 and Egr-4 are nuclear transcription factors belonging to the Egr C₂H₂-type zinc-finger protein family and containing three C₂H₂-type zinc fingers. As immediate early proteins, Egr transcription factors are rapidly induced by diverse extracellular stimuli. They are subject to tight differential control through diverse mechanisms at several levels of regulation: transcriptional; translational and posttranslational (including glycosylation, phosphorylation and redox) mechanisms; and protein-protein interaction. Egr-3 is involved in muscle spindle development and is expressed in T cells 20 minutes following activation.

CHROMOSOMAL LOCATION

Genetic locus: EGR3 (human) mapping to 8p21.3; Egr3 (mouse) mapping to 14 D2.

SOURCE

Egr-3 (C-24) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of Egr-3 of human origin.

PRODUCT

Each vial contains 100 µg IgG 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-191 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-191 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Egr-3 (C-24) is recommended for detection of Egr-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Egr-3 (C-24) is also recommended for detection of Egr-3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Egr-3 siRNA (h): sc-35268, Egr-3 siRNA (m): sc-35269, Egr-3 shRNA Plasmid (h): sc-35268-SH, Egr-3 shRNA Plasmid (m): sc-35269-SH, Egr-3 shRNA (h) Lentiviral Particles: sc-35268-V and Egr-3 shRNA (m) Lentiviral Particles: sc-35269-V.

Egr-3 (C-24) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Egr-3: 43/46 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

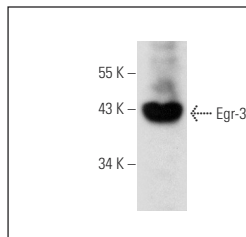
RESEARCH USE

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

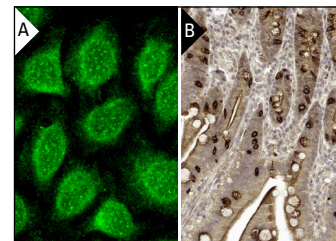
STORAGE

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

DATA



Egr-3 (C-24): sc-191. Western blot analysis of Egr-3 expression in MCF7 whole cell lysate.



Egr-3 (C-24): sc-191. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing nuclear and cytoplasmic staining of glandular cells at high magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program (B).

SELECT PRODUCT CITATIONS

- Jensen, D.E., et al. 1995. Transcriptional regulation of the elastin gene by Insulin-like growth factor-I involves disruption of Sp1 binding. *J. Biol. Chem.* 270: 6555-6563.
- Cron, R.Q., et al. 2006. Early growth response-1 is required for CD154 transcription. *J. Immunol.* 176: 811-818.
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- Wu, E., et al. 2008. Comprehensive dissection of PDGF-PDGFR signaling pathways in PDGFR genetically defined cells. *PLoS ONE* 3: e3794.
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- Grasberger, H., et al. 2013. Identification of a functional TPH1 polymorphism associated with irritable bowel syndrome bowel habit subtypes. *Am. J. Gastroenterol.* 108: 1766-1774.

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Try **Egr-3 (A-7): sc-390967**, our highly recommended monoclonal alternative to Egr-3 (C-24).