

IEX-1 Antibody

IEX-1: Immediate early response 3, IER3, DIF2, PRG1, GLY96

CATALOG No.:4247

BACKGROUND:

IEX-1 is a stress inducible gene that is induced by ionizing radiation, ultraviolet radiation, and a variety of growth factors, i.e., FAS and TNF- α (1). IEX-1 is widely expressed in epithelial and endocrine tissues, as well as in vascular endothelium (2). It plays an important role in the regulation of cellular growth, cell death and oncogenesis. IEX-1 is precisely regulated by multiple transcription factors such as p53, NF- κ B/rel, Sp1 and c-Myc, to ensure rapid and transient expression of IEX-1 in cells under a variety of stress conditions (1,3). IEX-1 is expressed as both a longer form (IEX1L) and a splice variant, designated IEX1S. It is localized to the nucleus and perinuclear region (3). Overexpression of IEX-1 facilitates apoptosis and cell cycle progression, whereas disruption of IEX-1 expression is associated with decreases in both apoptosis and cell cycle progression (4,5).

SOURCE:

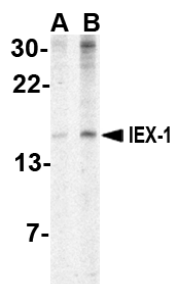
Rabbit polyclonal IEX1 antibody was raised against a 24 amino acid peptide near the center of human IEX1 (GenBank accession no. P46695).

APPLICATION:

IEX1 antibody can be used for detection of IEX1 by Western blot at 2 – 4 μ g/ml. (Optimal dilution should be determined by user.) Human brain tissue lysate can be used as positive control. IEX1 antibody is human and mouse reactive. **For research use only.**

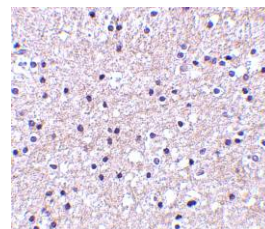
STORAGE:

IEX1 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of IEX1 in human brain tissue lysate with IEX1 antibody at (A) 2 and (B) 4 μ g/ml.

Immunohistochemistry of IEX-1 in human liver tissue with IEX-1 antibody at 2.5 μ g/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4247P**.
Human Brain Tissue Lysate, Catalog No. **1303**.
TNF- α Antibody, Catalog No. **XP-5782**.
TACE Antibody, Catalog No. **1131**.

REFERENCES:

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2. Feldmann KA, Piddelkow MR, Roche PC, et al. Expression of an immediate early gene, IEX-1, in human tissues. *Histochem. Cell Biol.* 2001; 115:489-97.
3. Wu MX, Zhaohui A, Prasad KVS, et al. IEX-1L, an apoptosis inhibitor involved in NF κ B mediated cell survival. *Science* 1998; 281:998-1001.
4. Arlt A, Grobe O, Sieke A, et al. Expression of the NF-kappa B target gene IEX-1 (p22/PRG1) does not prevent cell death but instead triggers apoptosis in HeLa cells. *Oncogene* 2001; 20:69-76.
5. Grobe O, Arlt A, Ungfjoren H, et al. Functional disruption of IEX-1 expression by concatemeric hammerhead ribozymes alters growth properties of 293 cells. *FEBS Lett.* 2001; 494:196-200. (07-01D)