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IEX-1 Antibody
Catalog # ASC10547

Specification

IEX-1 Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	P46695
Other Accession	P46695, 8870
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**IEX1 antibody can be used for detection of IEX1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

IEX-1 Antibody - Additional Information

Gene ID **8870**

Target/Specificity
IEX1 antibody was raised against a 24 amino acid synthetic peptide near the center of human IEX1.

The immunogen is located within amino acids 40 - 90 of IEX-1.

Reconstitution & Storage
IEX-1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
IEX-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

IEX-1 Antibody - Protein Information

Name IER3

Synonyms DIF2, IEX1, PRG1

Function
May play a role in the ERK signaling pathway by inhibiting the dephosphorylation of ERK by phosphatase PP2A-PPP2R5C holoenzyme. Also acts as an ERK downstream effector mediating survival. As a member of the NUPR1/RELB/IER3 survival pathway, may provide pancreatic ductal adenocarcinoma with remarkable resistance to cell stress, such as starvation or gemcitabine treatment.

Cellular Location

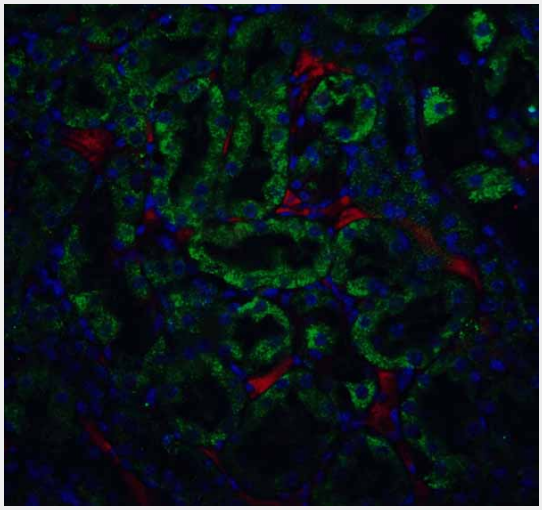
Membrane; Single- pass type II membrane protein

IEX-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IEX-1 Antibody - Images



Immunofluorescence of CAD in mouse kidney tissue with CAD antibody at 5 µg/ml.

IEX-1 Antibody - Background

IEX-1 Antibody: 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. IEX-1 is widely expressed in epithelial and endocrine tissues, as well as in vascular endothelium. 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-κB/rel, Sp1 and c-Myc, to ensure rapid and transient expression of IEX-1 in cells under a variety of stress conditions. 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. 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.

IEX-1 Antibody - References

Kondratyev AD, Chung K-N and Jung MO. Identification and characterization of a radiation-inducible glycosylated human early-response gene. Cancer Res.1996; 56:1498-502.
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.
Wu MX, Zhaohui A, Prasad KVS, et al. IEX-1L, an apoptosis inhibitor involved in NFkappaB mediated

cell survival. Science1998; 281:998-1001.
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. Oncogene2001; 20:69-76.