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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.<br><br>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**

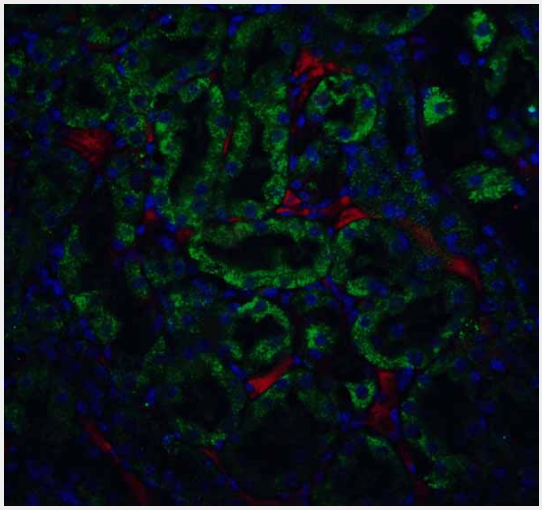
Membrane; Single- pass type II membrane protein

**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.