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Datasheet for 600-401-BT1

IEX1 Antibody

Overview

Description:	Anti-IEX1 (RABBIT) Antibody - 600-401-BT1
Item No.:	600-401-BT1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

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-a. 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-kB/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.
Synonyms:	IEX-1 Antibody, DIF2, IEX1, PRG1, DIF-2, GLY96, IEX-1, IEX-1L, DIF2, Radiation-inducible immediate-early gene IEX-1, Differentiation-dependent gene 2 protein, Protein DIF-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IER3
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-IEX1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 24 amino acid synthetic peptide near the internal region of human IEX1.
Purity/Specificity:	Anti-IEX-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with IEX-1 from other sources has not been determined.
Relevant Links:	• UniProtKB - P46695 • GeneID - 8870 • NCBI - NP_003888.2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-IEX-1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 17 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:40,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	2-4 µg/mL

Formulation

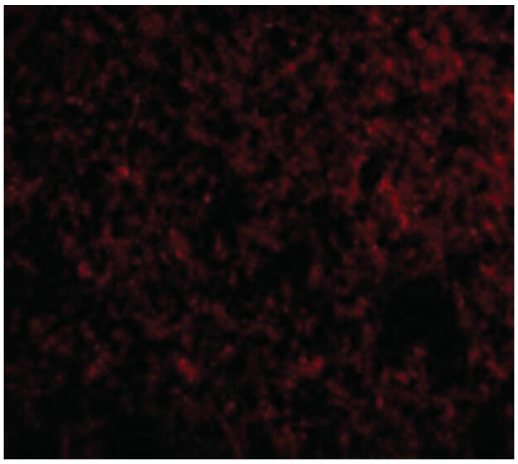
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

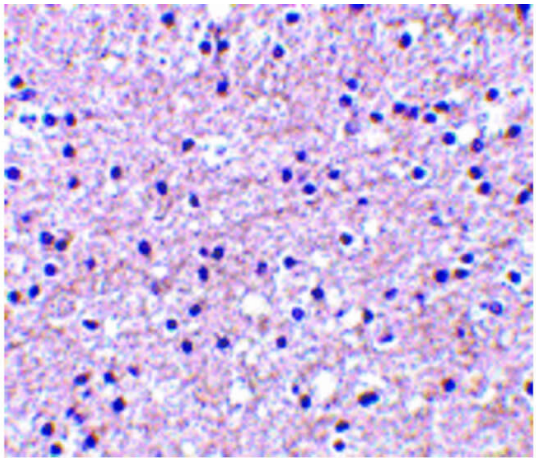
Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

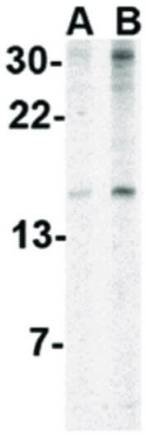
Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of IEX-1 antibody. Tissue: Human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: IEX-1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: IEX-1 as a red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of IEX-1 antibody. Tissue: Human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IEX-1 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IEX-1 is nuclear and occasionally cytoplasmic. Staining: IEX-1 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of IEX-1 antibody. Lane A: Human brain tissue lysate at 2 µg/mL. Lane B: Human brain tissue lysate at 4 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 16.9 kDa, ~17 kDa for IEX-1. Other band(s): IEX-1 splice variants and isoforms.

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