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Datasheet for 600-401-AK6

CIDE-B Antibody

Overview

Description:	Anti-CIDE-B (RABBIT) Antibody - 600-401-AK6
Item No.:	600-401-AK6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Apoptosis is related to many diseases and induced by a family of cell death receptors and their ligands. Cell death signals are transduced by death domain containing adapter molecules and members of the caspase family of proteases. These death signals finally cause the degradation of chromosomal DNA by activated DNase. DFF45/ICAD has been identified as inhibitor of caspase activated DNase DFF40/CAD. DFF45 related proteins CIDE-A and CIDE-B (for cell death-inducing DFF-like effector A and B) were recently identified. CIDE contains a new type of domain termed CIDE-N, which has high homology with the regulatory domains of DFF45/ICAD and DFF40/CAD. Expression of CIDE-B induces apoptosis, which is inhibited by DFF45. CIDE-B is a DFF45-inhibitable effector that promotes cell death and DNA fragmentation. CIDE-B is expressed mainly in liver and at lower levels in spleen, kidney, peripheral blood lymphocytes and bone marrow.
Synonyms:	CIDE-B Antibody, CIDE-B, AI790179, 1110030C18Rik, Cell death activator CIDE-B, Cell death-inducing DFFA-like effector B
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CIDEB
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CIDE-B antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to 15 amino acids near the C-terminus of human CIDE-B.
Purity/Specificity:	Anti-CIDE-B Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. CIDE-B antibody has no cross activity to CIDE-A.
Relevant Links:	• UniProtKB - Q9UHD4 • GeneID - 27141 • NCBI - NP_001305736.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-CIDE-B 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 25 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:	1:5000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	0.5-2 µg/mL

Formulation

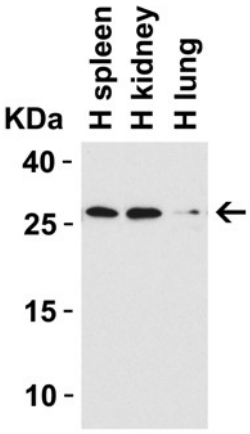
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

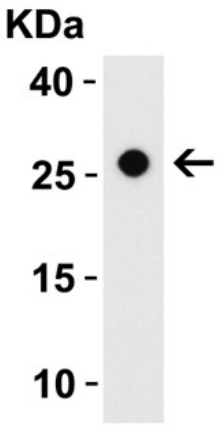
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

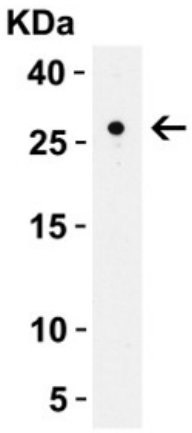
Images



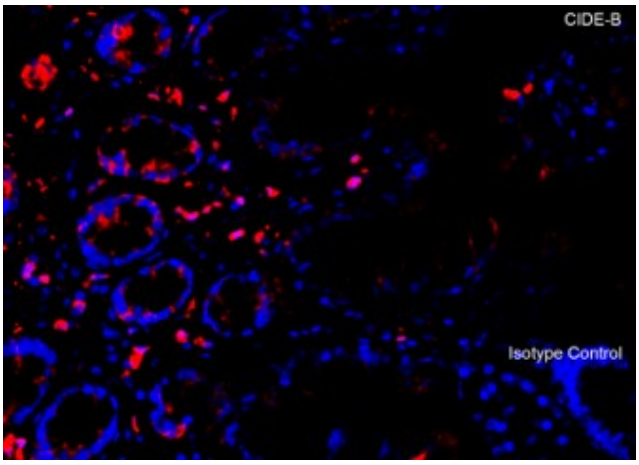
Western Blot
WB Validation in Human Tissues. Loading: 15 µg of lysate Antibodies: CIDE-B, 1 µg/mL, 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



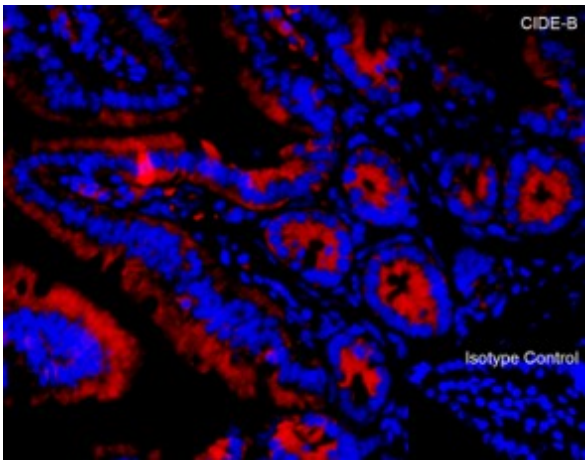
Western Blot
WB Validation. Loading: 15 µg of Mouse Small Intestine lysate. Antibodies: CIDE-B, 1 µg/mL, 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000.



Western Blot
WB Validation. Loading: 15 µg of Rat Small Intestine lysate. Antibodies: CIDE-B, 2 µg/mL, 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Microscopy
Immunofluorescent analysis of 4% paraformaldehyde-fixed human small intestine tissue labeling CIDE-Bat 10 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



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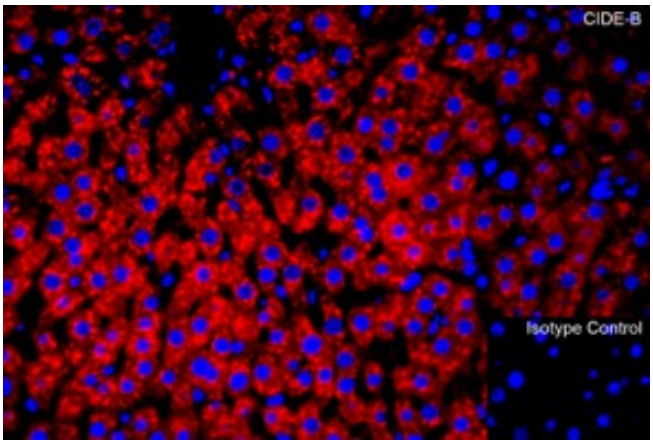
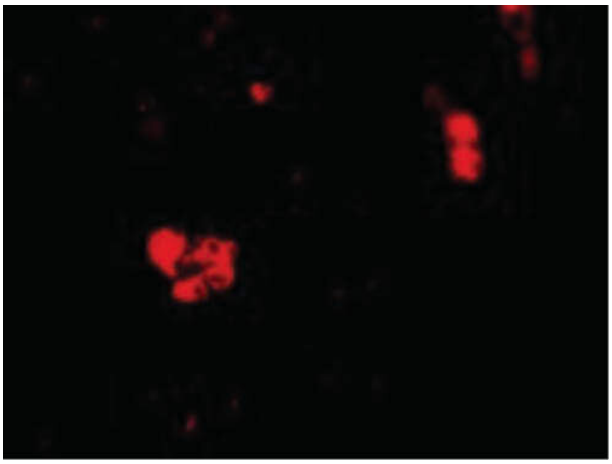
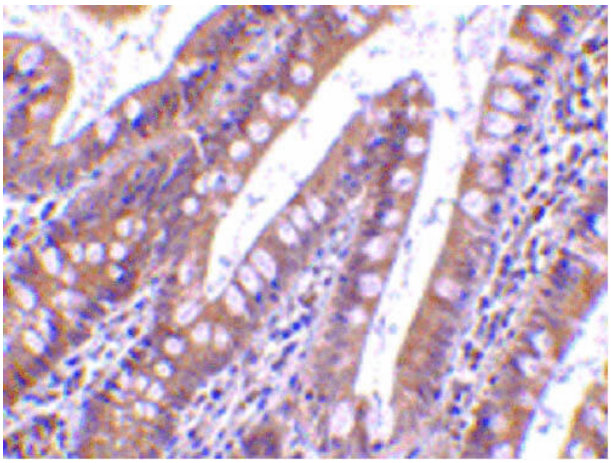


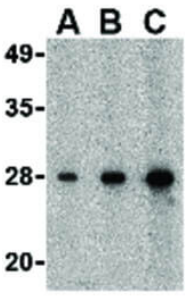
Immunofluorescence Microscopy
Immunofluorescent analysis of 4% paraformaldehyde-fixed rat liver tissue labeling CIDE-Bat 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunofluorescence Microscopy
Immunofluorescence Microscopy of CIDE-B antibody. Tissue: Human small intestine cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: CIDE-B 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. Localization: CIDE-B is localized in the cytosol, lipid particles, and perinucear region of the cytoplasm. Staining: CIDE-B as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of CIDE-B antibody. Tissue: Human small intestine cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: CIDE-B antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: CIDE-B is localized in the cytosol, lipid particles, and perinuclear region of the cytoplasm. Staining: CIDE-B as precipitated brown signal with hematoxylin purple nuclear counterstain.



Western Blot

Western Blot of CIDE-B antibody. Lane 1: Mouse small intestine tissue lysate with CIDE-B at 0.5 µg/mL. Lane 2: Mouse small intestine tissue lysate with CIDE-B at 1 µg/mL. Lane 3: Mouse small intestine tissue lysate with CIDE-B at 2 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: 24.7 kDa, 28 kDa for CIDE-B.

Disclaimer

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