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Datasheet for 600-401-CL3

Livin Antibody

Overview

Description:	Anti-Livin (RABBIT) Antibody - 600-401-CL3
Item No.:	600-401-CL3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Apoptosis, or programmed cell death, is related to many diseases, such as cancer. Apoptosis is triggered by a variety of stimuli including members in the TNF family and prevented by the inhibitor of apoptosis (IAP) proteins. IAP proteins form a conserved gene family that binds to and inhibits cell death proteases. A novel member in the IAP protein family was recently identified and designated Livin and KIAP for kidney IAP. Livin/XIAP contains a single baculoviral IAP repeat (BIR) domain and a RING finger domain and has two isoforms termed Livin-alpha and Livin-beta. Transfection of Livin in cells resulted in protection from apoptosis induced by FADD, BAX, RIP, RIP3 and DR6. Livin has direct interaction with several caspases including caspase-3, -7, and -9. Livin inhibits the activation of caspase-9 induced by Apaf-1, cytochrome c, and dATP. The two isoforms of Livin appear to have different functions and tissue distributions.
Synonyms:	Livin Antibody, KIAP, LIVIN, MLIAP, RNF50, ML-IAP, KIAP, UNQ5800/PRO19607/PRO21344, Baculoviral IAP repeat-containing protein 7, Kidney inhibitor of apoptosis protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BIRC7
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Livin antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the C-terminus of human Livin.
Purity/Specificity:	Anti-Livin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. A lower but much weaker band at 30 kDa was detected in Raji cell lysate, which may represent the short form of Livin.
Relevant Links:	• UniProtKB - Q96CA5 • GeneID - 79444 • NCBI - NP_071444

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Livin 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 33 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:	1:5,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	0.5 µg/mL

Formulation

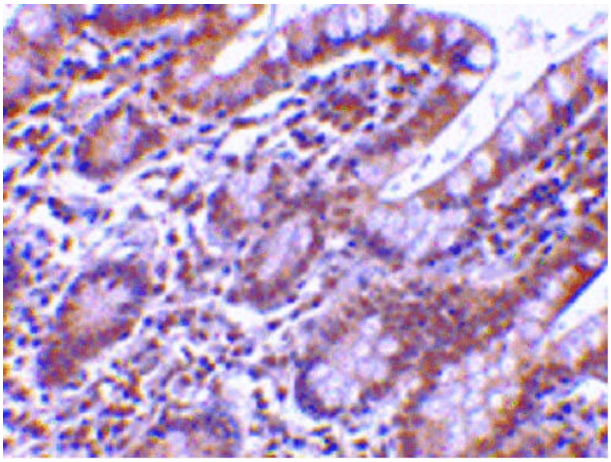
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

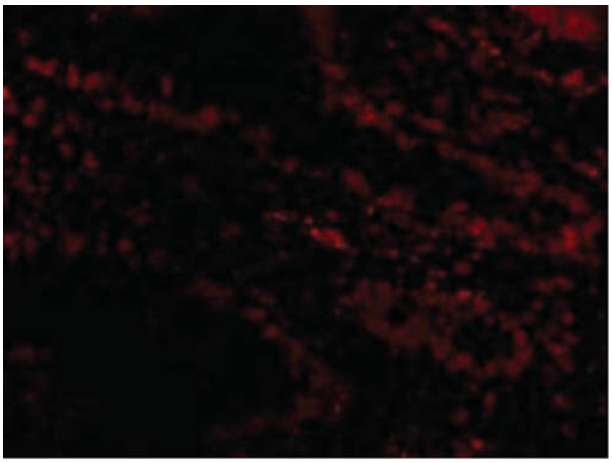
Shipping Condition:	Wet Ice

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.

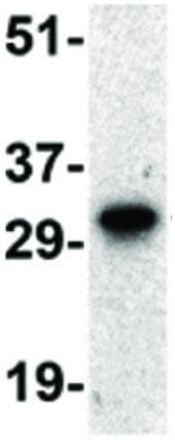
Images



Immunohistochemistry
Immunohistochemistry of Livin antibody. Tissue: Human small intestine tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Livin 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: Livin is nuclear, cytoplasmic, and is also localized in the Golgi apparatus. Staining: Livin as precipitated brown signal with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of Livin antibody. Tissue: Human small intestine cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Livin 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: Livin is nuclear, cytoplasmic, and is also localized in the Golgi apparatus. Staining: Livin as red fluorescent signal.



Western Blot

Western Blot of Livin antibody. Lane 1: Human Raji cell lysate. Load: 35 µg per lane. Primary antibody: Livin antibody at 0.5 µg/mL for overnight at 4°C. 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: 32.8 kDa, 31 kDa for Livin.

Disclaimer

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