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Datasheet for 600-401-AK2

cIAP Antibody

Overview

Description:	Anti-cIAP (RABBIT) Antibody - 600-401-AK2
Item No.:	600-401-AK2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
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 can be prevented by the inhibitor of apoptosis (IAP) proteins. IAP proteins form a conserved gene family that binds to and inhibits cell death proteases. The two isoforms of c-IAP (c-IAP1 and c-IAP2) are structurally related to XIAP, containing 3 baculoviral IAP repeat (BIR) motifs that are essential and sufficient for the binding and inhibition of caspases-3, -7. The c-IAPs can associate with the death receptor TNF-R2, and mediate the ubiquitination of TRAF2 following the binding of TNF-a by its receptor. Omi, a negative regulator of c-IAP, inhibits its activity by catalytically cleaving c-IAP. Another negative regulator, Smac/DIABLO, acts by enhancing the auto-ubiquitination activity of c-IAP.
Synonyms:	cIAP Antibody, API1, MIHB, HIAP2, RNF48, cIAP1, Hiap-2, c-IAP1, API1, IAP2, Baculoviral IAP repeat-containing protein 2, C-IAP1, IAP-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BIRC2
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-c-IAP antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to 14 amino acids at the C-terminus of human c-IAP1 c-IAP antibody detects both c-IAP1 and c-IAP2.
Purity/Specificity:	Anti-cIAP Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with cIAP from other sources has not been determined.
Relevant Links:	• UniProtKB - Q13490 • GeneID - 329 • NCBI - NP_001157

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-cIAP 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 70 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:	1:10,000 - 1:40,000
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	1-4 µg/mL

Formulation

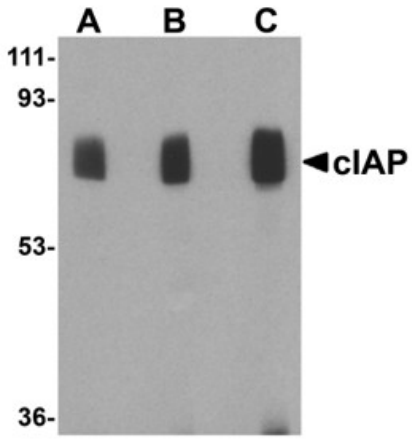
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

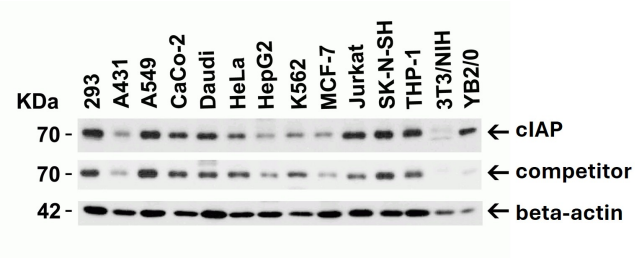
Shipping Condition:	Dry Ice

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.

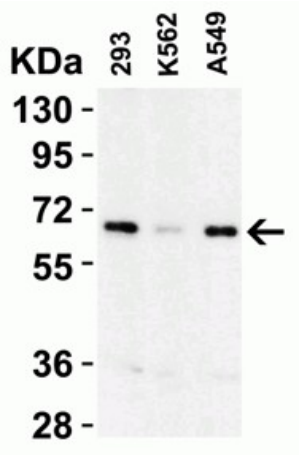
Images



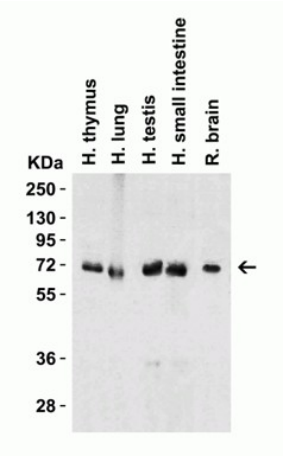
Western Blot
Western Blot Validation. Loading: 15 µg of Human Lung Lysate per lane. Antibodies: cIAP (A: 1 µg/mL, B: 2 µg/mL and C: 4 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



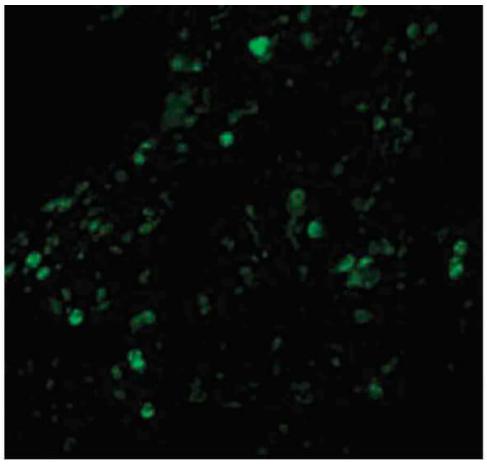
Western Blot
Western Blot validation. Loading: 15 µg of Human, Mouse and Rat Cell Line lysates per lane. Antibodies: cIAP (2 µg/mL), cIAP, competitor antibody, (1 µg/mL) and beta-actin (1.5 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



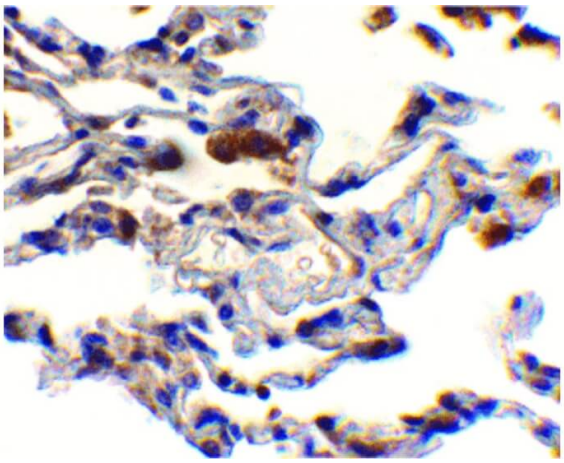
Western Blot
Western Blot Validation. Loading: 15 µg of Human Cell Lines lysates per lane. Antibodies: cIAP (2 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



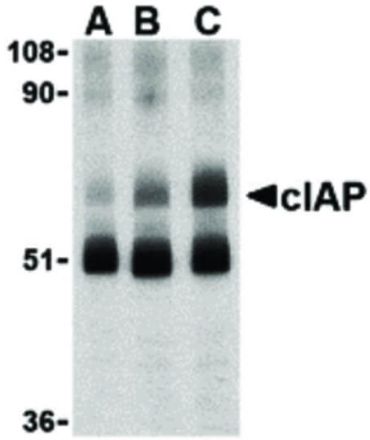
Western Blot
Western Blot Validation. Loading: 15 µg of Human and Rat Tissue Lysates per lane. Antibodies: cIAP (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of cIAP antibody. Tissue: human breast carcinoma. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: cIAP 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: cIAP is nuclear and cytoplasmic. Staining: cIAP as green fluorescent signal.



Immunohistochemistry
Immunohistochemistry of cIAP antibody. Cell Type: human lung cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: cIAP antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: cIAP is nuclear and cytoplasmic. Staining: cIAP is stained with touidine blue.



Western Blot
Western Blot of c-IAP antibody in human lung lysate. Lane A: c-IAP antibody at 1 µg/mL. Lane B: c-IAP antibody at 2 µg/mL. Lane B: c-IAP antibody at 4 µg/mL. Load: 35 µg per lane. Primary antibody: c-IAP antibody at designated concentrations 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: 70 kDa, 70 kDa for c-IAP. Other band(s): c-IAP splice variants and isoforms.

Disclaimer

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