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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-ER4

Smac Antibody

Overview

Description:	Anti-Smac (RABBIT) Antibody - 600-401-ER4
Item No.:	600-401-ER4
Size:	100 µg
Applications:	ELISA, IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The inhibitor of apoptosis proteins (IAPs) regulate programmed cell death by inhibiting members of the caspase family of enzymes. A novel mammalian protein that binds to IAPs and neutralizes the inhibitory effect of IAPs on caspases was recently identified and designated Smac/DIABLO. Smac/DIABLO is a mitochondrial protein that is released along with cytochrome c during apoptosis and activates cytochrome c/Apaf-1/capase-9 pathway. Analysis of the structural basis of Smac/DIABLO reveals that the N-terminal amino acids are required for binding of Smac/DIABLO to IAPs and activation of caspases. Smac/DIABLO is expressed in a variety of human and mouse tissues.
Synonyms:	Smac Antibody, Smac, AU040403, 0610041G12Rik, 1700006L01Rik, Smac, Diablo homolog, mitochondrial, Direct IAP-binding protein with low pI
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	DIABLO
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Smac antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the C-terminus of human Smac.

Purity/Specificity:	Anti-Smac Antibody is DEAE purified. Cross reactivity with Smac from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NR28 • GeneID - 56616 • NCBI - NP_001265231.1

Application Details

Tested Applications:	ELISA, IF, IHC, IP, WB
Application Note:	Anti-Smac Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry, immunofluorescence, and Immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 27 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
IF:	User Optimized
IHC:	5 µg/mL
IP:	User Optimized
WB:	1 µg/mL

Formulation

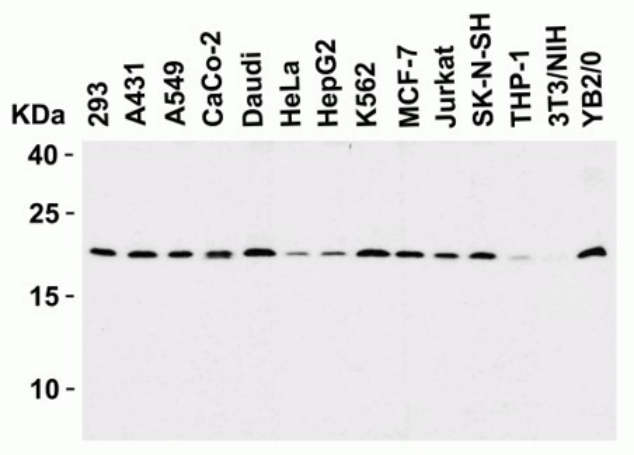
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

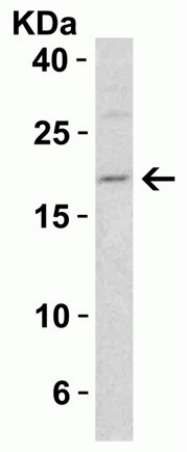
Shipping Condition:	Dry Ice

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.

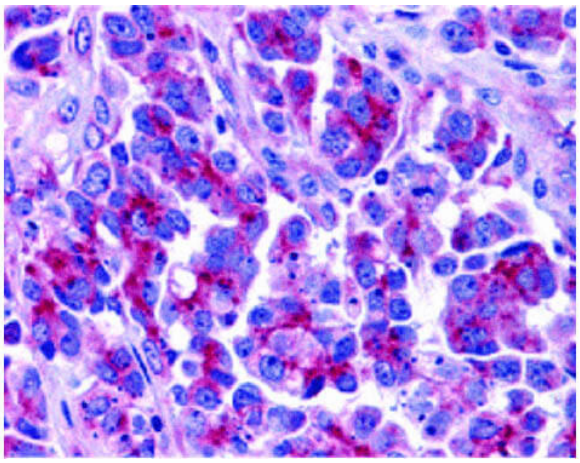
Images



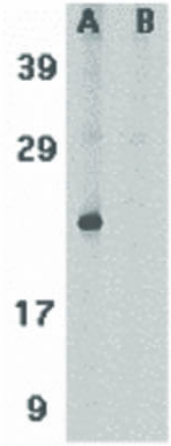
Western Blot
Western Blot of Smac. Loading: 15 µg of Human, Mouse and Rat Cell Line lysates per lane. Antibodies: Smac (1 µg/mL), 1h incubation at RT in 5% NFM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot of Smac. Loading: 15 µg of Mouse 3T3/NIH Cell lysate. Antibodies: Smac (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry
Immunohistochemistry of Smac antibody. Tissue: Human ovary tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Smac 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: Smac is secreted and is also localized in the extracellular exosome. Staining: Smac as precipitated pink signal with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of Smac antibody. Lane 1: Human heart tissue lysate. Lane 2: Human heart tissue lysate in the presence of blocking peptide. Load: 35 µg per lane. Primary antibody: Smac antibody at 1 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: 14.3 kDa, 25 kDa for Smac.

Disclaimer

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