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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

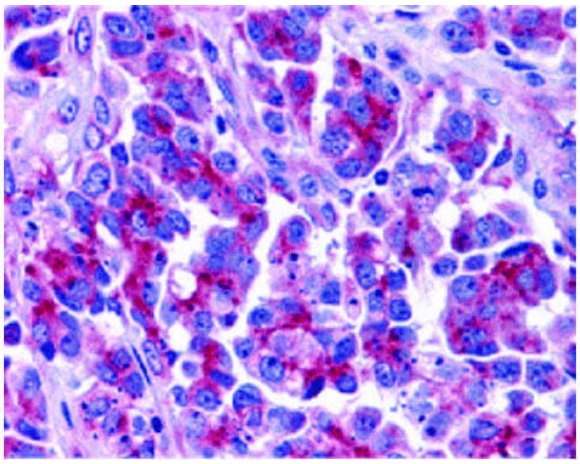
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

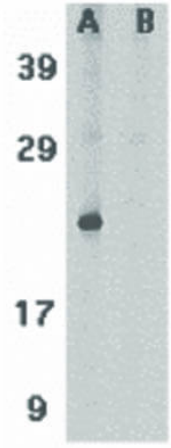
Shipping Condition:	Dry Ice

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



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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.