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SMAC Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6820b

Specification

SMAC Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q9NR28
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**211-239**

SMAC Antibody (C-term) - Additional Information

Gene ID 56616

Other Names
Diablo homolog, mitochondrial, Direct IAP-binding protein with low pI, Second mitochondria-derived activator of caspase, Smac, DIABLO, SMAC

Target/Specificity
This SMAC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 211-239 amino acids from the C-terminal region of human SMAC.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
SMAC Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SMAC Antibody (C-term) - Protein Information

Name DIABLO (HGNC:21528)

Function Promotes apoptosis by activating caspases in the cytochrome c/Apaf-1/caspase-9

pathway. Acts by opposing the inhibitory activity of inhibitor of apoptosis proteins (IAP). Inhibits the activity of BIRC6/BRUCE by inhibiting its binding to caspases (PubMed:15200957, PubMed:36758104, PubMed:36758105, PubMed:36758106).

Cellular Location
Mitochondrion. Cytoplasm, cytosol Note=Released into the cytosol in a PARL-dependent manner when cells undergo apoptosis.

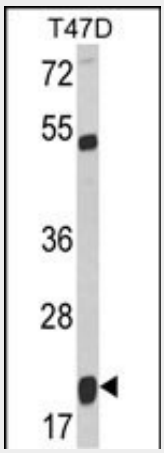
Tissue Location
Ubiquitously expressed with highest expression in testis. Expression is also high in heart, liver, kidney, spleen, prostate and ovary. Low in brain, lung, thymus and peripheral blood leukocytes. Isoform 3 is ubiquitously expressed

SMAC Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SMAC Antibody (C-term) - Images



Western blot analysis of SMAC Antibody (C-term) (Cat. #AP6820b) in T47D cell line lysates (35ug/lane). SMAC (arrow) was detected using the purified Pab.

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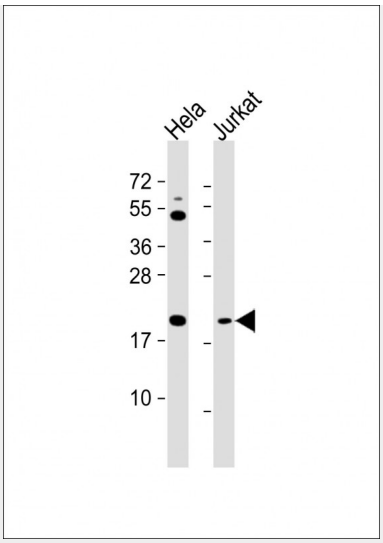
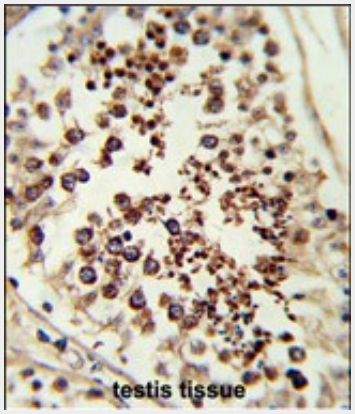
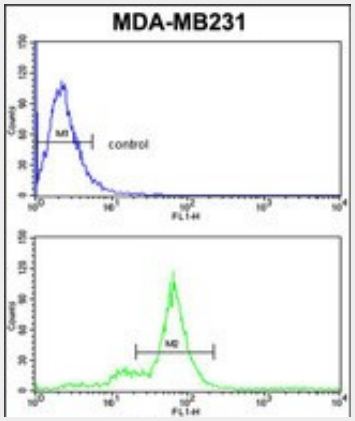


All lanes : Anti-SMAC Antibody (C-term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 27 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human testis tissue reacted with SMAC Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



SMAC Antibody (C-term) (Cat. #AP6820b) flow cytometric analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

SMAC Antibody (C-term) - Background

SMAC is an inhibitor of apoptosis protein (IAP)-binding protein. This mitochondrial protein enters the cytosol when cells undergo apoptosis, and it moderates the caspase inhibition of IAPs.

SMAC Antibody (C-term) - References

Carbone,A., et.al., Genes Chromosomes Cancer 47 (12), 1067-1075 (2008)

SMAC Antibody (C-term) - Citations

- A novel small-molecule inhibitor of mcl-1 blocks pancreatic cancer growth in vitro and in vivo.