

ARG54330 anti-Smac / Diablo antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Smac / Diablo
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Specificity	This antibody recognizes human, mouse, and rat Smac (25kDa).
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Smac / Diablo
Species	Human
Immunogen	Synthetic peptide corresponding to aa 225-239 of human Smac (accession no. AAF87716).
Conjugation	Un-conjugated
Alternate Names	Smac; Second mitochondria-derived activator of caspase; Diablo homolog, mitochondrial; SMAC; Direct IAP-binding protein with low pI; DFNA64

Application Instructions

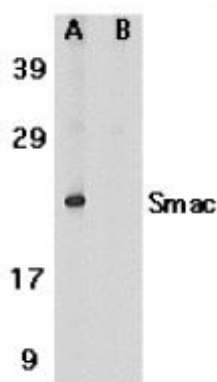
Application table	Application	Dilution
	IHC-P	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human heart and Human ovary	

Properties

Form	Liquid
Purification	Immunoaffinity chroma-tography
Buffer	PBS (pH 7.4) and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

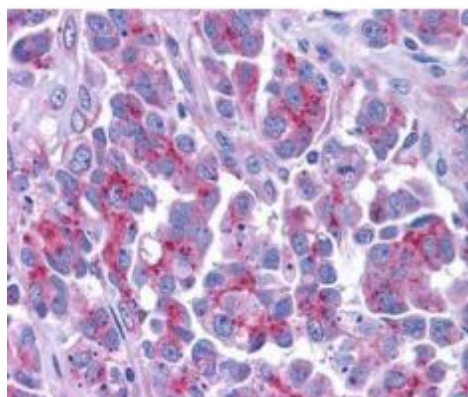
Database links	GeneID: 56616 Human Swiss-port # Q9NR28 Human
Gene Symbol	DIABLO
Gene Full Name	diablo, IAP-binding mitochondrial protein
Background	Inhibitors of apoptosis proteins (IAPs) regulate programmed cell death by inhibiting members of the caspase family of enzymes. A novel mammalian protein that binds to IAPs and neutralizes the inhibitory effect of IAPs on caspases has been identified and designated Smac/DIABLO. Smac is a mitochondrial protein that is released along with cytochrome c during apoptosis and activates the cytochrome c/Apaf-1/caspase-9 pathway. The N-terminal amino acids of Smac are required for binding to IAPs and for activation of caspases. Smac is expressed in a variety of human and mouse tissues.
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. Isoform 3 attenuates the stability and apoptosis-inhibiting activity of XIAP/BIRC4 by promoting XIAP/BIRC4 ubiquitination and degradation through the ubiquitin-proteasome pathway. Isoform 3 also disrupts XIAP/BIRC4 interacting with processed caspase-9 and promotes caspase-3 activation. Isoform 1 is defective in the capacity to down-regulate the XIAP/BIRC4 abundance. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody
Calculated Mw	27 kDa
PTM	Ubiquitinated by BIRC7/livin.

Images



ARG54330 anti-Smac / Diablo antibody WB image

Western blot: A: Human heart tissue lysate in the absence of blocking peptide; B: Human heart tissue lysate in the presence of blocking peptide stained with ARG54330 anti-Smac / Diablo antibody at 1 µg/ml dilution.



ARG54330 anti-Smac / Diablo antibody IHC image

Immunohistochemistry: Human heart tissue lysate stained with ARG54330 anti-Smac / Diablo antibody at 5 µg/ml dilution.