

ARG54653
anti-Smac / Diablo antibodyPackage: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Smac / Diablo
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Smac / Diablo
Immunogen	Synthetic peptide (16 aa) within the last 50 aa of Mouse Smac.
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
	ELISA	Assay-Dependent
	ICC/IF	10 µg/mL
	IHC-P	Assay-Dependent
	IP	Assay-Dependent
	WB	1 µg/mL
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse Heart Tissue Lysate	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS 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.

Bioinformation

Database links

[GeneID: 56616 Human](#)

[GeneID: 66593 Mouse](#)

[Swiss-port # Q9JIQ3 Mouse](#)

[Swiss-port # Q9NR28 Human](#)

Gene Symbol

Diablo

Gene Full Name

diablo homolog (Drosophila)

Background

Smac Antibody: 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/caspase-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. |

Research Area

Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Metabolism antibody

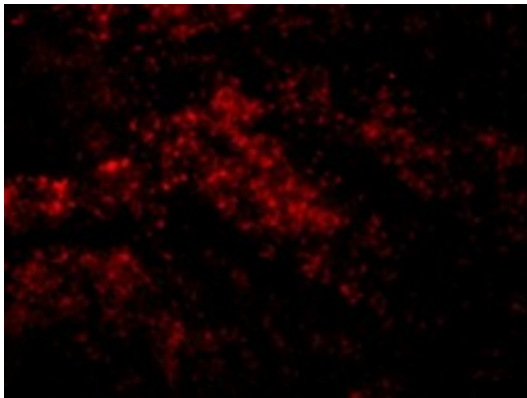
Calculated Mw

27 kDa

PTM

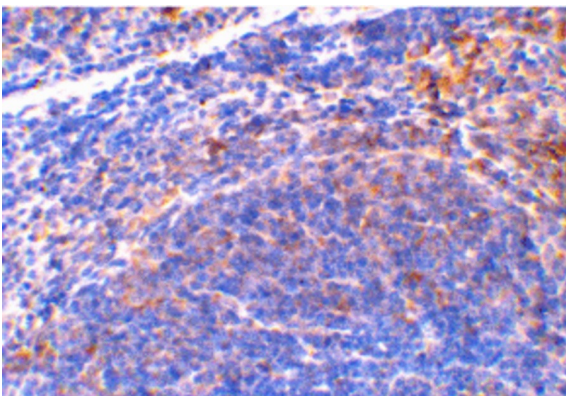
Ubiquitinated by BIRC7/livin.

Images



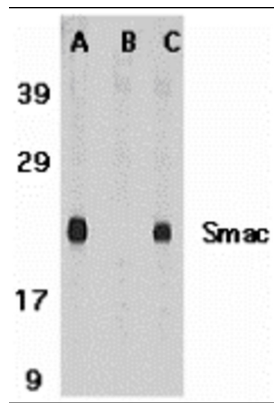
ARG54653 anti-Smac antibody ICC/IF image

Immunofluorescence: mouse spleen cells stained with ARG54653 anti-Smac antibody at 10 µg/ml.



ARG54653 anti-Smac antibody IHC image

Immunohistochemistry: mouse spleen tissue stained with ARG54653 anti-Smac antibody at 2 µg/ml.



ARG54653 anti-Smac antibody WB image

Western blot: mouse heart tissue lysate in the absence (A) or presence (B) of blocking peptide and in rat heart tissue lysate (C) stained with ARG54653 anti-Smac antibody at 1 μg /ml.