ARG57123
anti-Smac / Diablo antibody [19F2]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [19F2] recognizes Smac / Diablo
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	19F2
Isotype	IgG2a, kappa
Target Name	Smac / Diablo
Species	Human
Immunogen	Recombinant fragment around aa. 56-239 of Human Smac / Diablo
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
FACS	Assay-dependent
ICC/IF	Assay-dependent
WB	1:3000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

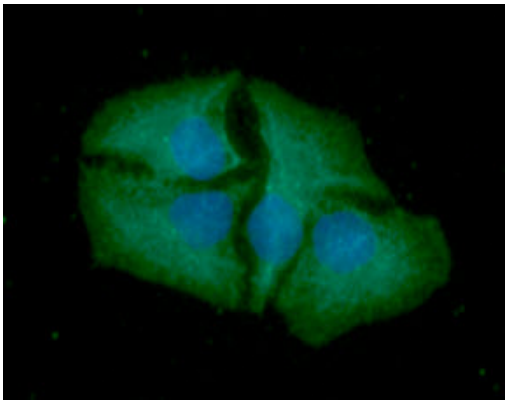
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. 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 Swiss-port # Q9NR28 Human
Gene Symbol	DIABLO
Gene Full Name	diablo, IAP-binding mitochondrial protein
Background	This gene encodes an inhibitor of apoptosis protein (IAP)-binding protein. The encoded mitochondrial protein enters the cytosol when cells undergo apoptosis, and allows activation of caspases by binding to inhibitor of apoptosis proteins. Overexpression of the encoded protein sensitizes tumor cells to apoptosis. A mutation in this gene is associated with young-adult onset of nonsyndromic deafness-64. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]
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]
Calculated Mw	27 kDa
PTM	Ubiquitinated by BIRC7/livin.

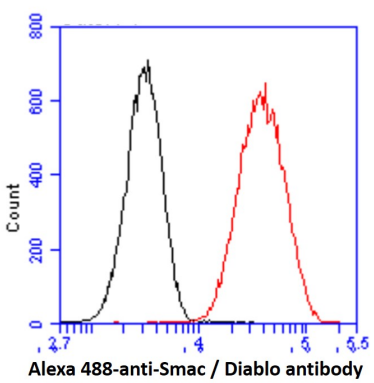
Images



ARG57123 anti-Smac / Diablo antibody [19F2] ICC/IF image

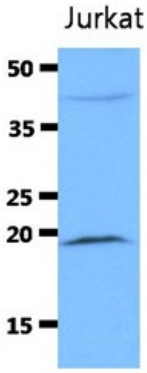
Immunofluorescence: HeLa cells line stained with ARG57123 anti-Smac / Diablo antibody [19F2] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



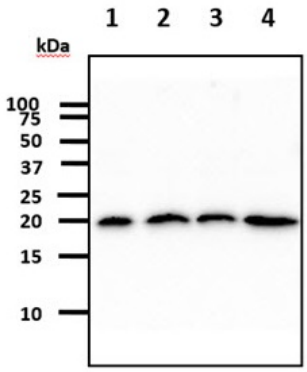
ARG57123 anti-Smac / Diablo antibody [19F2] FACS image

Flow Cytometry: HeLa cell line stained with ARG57123 anti-Smac / Diablo antibody [19F2] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody: Mouse IgG (black line).



ARG57123 anti-Smac / Diablo antibody [19F2] WB image

Western blot: 40 µg of Jurkat cell lysate stained with ARG57123 anti-Smac / Diablo antibody [19F2] at 1:3000.



ARG57123 anti-Smac / Diablo antibody [19F2] WB image

Western blot: 40 µg of 1) 293T, 2) A431, 3) Hep3B, and 4) MCF7 cell lysates stained with ARG57123 anti-Smac / Diablo antibody [19F2] at 1:1000.