

Mouse anti-Human SMAC Monoclonal Antibody | anti-SMAC antibody

SMAC antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48126	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

SMAC; Monoclonal Antibody; SMAC antibody; Diablo isoform 1; SMAC3; DIABLO-S; FLJ10537; FLJ25049; SMAC/Diablo; Diablo isoform 1 0610041G12Rik; DBOH; Diablo homolog; DIABLO S; Diablo homolog (Drosophila); Mitochondrial Smac protein; Diablo homolog mitochondrial; SMAC 3; Smac protein; Direct IAP binding protein with low pI; Second mitochondria derived activator of caspase.; anti-SMAC antibody

PRODUCT SPECIFICATIONS

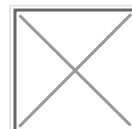
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	AT19F2
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	239
Applicable Applications for anti-SMAC antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human SMAC/Diablo (56-239aa) purified from E. coli
Clone Note	Anti-human SMAC mAb, clone AT19F2, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human SMAC/Diablo protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of SMAC in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human SMAC antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysate of Jurkat (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SMAC antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SMAC antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate Lane 2.: A431 cell lysate Lane 3.: Hep3B cell lysate Lane 4.: MCF7 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-SMAC antibody	SMAC/Diablo is one of the proapoptotic proteins. SMAC promotes caspase activation in the cytochrome c/Apaf-1/caspase-9 pathway by binding to inhibitor of apoptosis proteins (IAPs) and removing their inhibitory activity. In healthy cells, SMAC is a mitochondrial protein, but when cells undergo apoptosis, SMAC is released into the cytosol. SMAC is 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
Product Categories/Family for anti-SMAC antibody	Cancer
References	McNeish. I.A., et al. (2003) Exp Cell Res 286 (2): 186-198; Yu. J., et al. (2007) Oncogene 26 (29): 4189-4198 ; Vucic. D., et al. (2002) J Biol Chem 277 (14): 12275-12279

NCBI AND UNIPROT INFORMATION

NCBI GI #	9845297
NCBI GeneID	56616
NCBI Accession #	NP_063940
NCBI GenBank Nucleotide #	NM_019887.5
UniProt Accession #	Q9NR28; Q6W3F3; Q96LV0; Q9BT11; Q9HAV6; B2RDQ0
Molecular Weight	22,284 Da
NCBI Official Full Name	diablo homolog, mitochondrial isoform 1
NCBI Official Synonym Full Names	diablo IAP-binding mitochondrial protein
NCBI Official Symbol	DIABLO
NCBI Official Synonym Symbols	SMAC; DFNA64
NCBI Protein Information	diablo homolog, mitochondrial
UniProt Protein Name	Diablo homolog, mitochondrial
UniProt Gene Name	DIABLO
UniProt Synonym Gene Names	SMAC; Smac

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.