

Rabbit anti-Human SMAC Polyclonal Antibody | anti-DIABLO antibody

Anti-SMAC Antibody, Rabbit Polyclonal

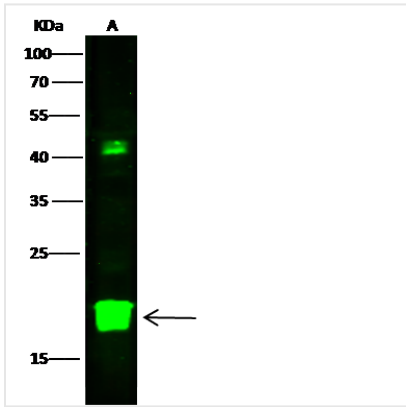
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254840	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

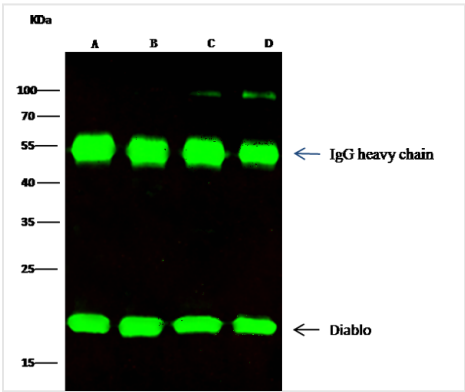
SMAC; Polyclonal Antibody; Anti-SMAC Antibody; Rabbit Polyclonal; SMAC/Diablo Antibody; Rabbit PAb; Antigen Affinity Purified; diablo; IAP-binding mitochondrial protein; Anti-DFNA64 Antibody; anti-DIABLO antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human SMAC/Diablo
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-DIABLO antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Diablo protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Diablo (rh Diablo). Diablo specific IgG was purified by human Diablo affinity chromatography .
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-Diablo rabbit polyclonal antibody at 1:500 dilutionLane A: A431 Whole Cell LysateLysates/proteins at 60 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:27 kDaObserved band size:18 kDa(We are unsure as to the identity of these extra bands.



IP (Immunoprecipitation)
Diablo was immunoprecipitated using:Lane A:0.5 mg Hela Whole Cell LysateLane B:0.5 mg A431 Whole Cell LysateLane C:0.5 mg MCF-7 Whole Cell LysateLane D:0.5 mg SH-SY5Y Whole Cell Lysate2 uL anti-Diablo rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-Diablo rabbit polyclonal antibody, at 1:500 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 19 kDaObserved band size: 19 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-DIABLO antibody	Apoptosis is an essential processes required for normal development and homeostasis of all metazoan organisms. Second Mitochondria-Derived Activator of Caspases (Smac) or Direct IAP Binding Protein with low isoelectric point, pI (Diablo) is a proapoptogenic mitochondrial protein that is released to the cytosol in response to diverse apoptotic stimuli, including commonly used chemotherapeutic drugs. The current knowlege about structure and function of Smac/Diablo during programmed cell death, both in mitochondrial and receptor pathways are presented. It has been shown that Diablo mainly interacts with IAPs in the cytochrome c/Apaf-1/caspase-9 pathway, and promotes apoptosis. Diablo is released from the mitochondria into the cytosol occurring downstream of cytochrome c release in response to apoptotic stimuli such as irradiation, DNA damage or cytotoxic drugs. In the cytosol, Smac/Diablo interacts and antagonizes inhibitors of apoptosis proteins (IAPs), thus allowing the activation of caspases and apoptosis. This activity has prompted the synthesis of peptidomimetics that could potentially be used in cancer therapy. The role of Smac/DIABLO in colorectal carcinogenesis is ill defined. Data continues to accumulate to suggest that decreased levels of Smac/DIABLO may be important in chemoradiation-resistance to apoptosis in advanced colon cancer.
Product Categories/Family for anti-DIABLO antibody	Death Receptor Signaling
References	Korga A, et al. (2006) Role of mitochondrial protein Smac/Diablo in regulation of apoptotic pathways Pol Merkur Lekarski. 20(119): 573-6.Anguiano-Hernandez YM, et al. (2007) Smac/DIABLO and colon cancer. Anticancer Agents Med Chem. 7(4): 467-73.Martinez-Ruiz G, et al. (2008) Role of Smac/DIABLO in cancer progression. J Exp Clin Cancer Res. 27: 48.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9845297
NCBI GeneID	56616
NCBI Accession #	NP_063940.1
NCBI GenBank Nucleotide #	NM_019887.4
UniProt Accession #	Q9NR28; Q6W3F3; Q96LV0; Q9BT11; Q9HAV6; B2RDQ0
Molecular Weight	27,131 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; SMAC3; DFNA64; DIABLO-S
NCBI Protein Information	diablo homolog, mitochondrial; 0610041G12Rik; mitochondrial Smac protein; direct IAP-binding protein with low pI; second mitochondria-derived activator of caspase
UniProt Protein Name	Diablo homolog, mitochondrial
UniProt Gene Name	DIABLO
UniProt Synonym Gene Names	SMAC; Smac
UniProt Entry Name	DBLOH_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/smac-antibody-immunoprecipitation-western-blot-elisa/254840>