

Rabbit Anti-Smac antibody

SL1298R

Product Name:	Smac
Chinese Name:	Mitochondrion促凋亡蛋白抗体
Alias:	Smac / Diablo; 0610041G12Rik; DBLOH_HUMAN; DBOH; DBOH; diablo; Diablo homolog (Drosophila); Diablo homolog (Drosophila); Diablo homolog Drosophila; Diablo homolog mitochondrial; Diablo homolog mitochondrial precursor; DIABLO S; DIABLO S; DIABLOS; Direct IAP binding protein with low pI; Direct IAP-binding protein with low pI; FLJ10537; FLJ25049; mitochondrial; Mitochondrial Smac protein; Second Mitochondria Derived Activator of Caspase; Second mitochondria-derived activator of caspase; SMAC 3; smac; Smac protein; SMAC3.
文献引用	Specific References(1) SL1298R has been referenced in 1 publications.
PubMed	[IF=1.96]Liu, Bao-Heng, et al. "Smac/DIABLO regulates the apoptosis of hypertrophic scar fibroblasts."?International Journal of Molecular Medicine?(2013).
	PubMed:23857156
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	21kDa
Cellular localization:	cytoplasmic Mitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Smac:131-239/239
Lsotype:	IgG
Purification:	affinity purified by Protein A

Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20 °C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	<u>PubMed</u>
Product Detail:	This gene encodes an inhibitor of apoptosis protein (IAP)-binding protein. The encoded mitochondrial protein enters the cytosol when cells undergo apoptosis, and it moderates the caspase inhibition of IAPs. Multiple polyadenylation sites have been found for this gene. Several alternatively spliced transcript variants that encode distinct isoforms have been described for this gene but the validity of some transcripts, and their predicted ORFs, has not been determined conclusively. The inhibitor of apoptosis (IAP) proteins regulate programmed cell death by inhibiting members of the caspase family of enzymes. A novel mammalian protein that binds to IAPs and neutralizes their inhibitory effect on caspases has been designated Smac/DIABLO. This is a mitochondrial protein that is released along with cytochrome eduring apoptosis and activates the 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. 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. Subunit: Homodimer. Interacts with NGFRAP1/BEX3 (By similarity). Interacts with BIRC2/c-IAP1, BIRC3/c-IAP2, XIAP/BIRC4, BIRC6/bruce and BIRC7/livin. Interacts with the monomeric and dimeric form of BIRC5/survivin. Subcellular Location: Mitochondrion. Note=Released into the cytosol when cells u

DISEASE:

Deafness, autosomal dominant, 64 (DFNA64) [MIM:614152]: A form of non-syndromic sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. Note=The disease is caused by mutations affecting the gene represented in this entry.

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SWISS:

O9NR28

Gene ID: 56616

Database links:

Entrez Gene: 56616Human

Entrez Gene: 66593Mouse

Entrez Gene: 288753Rat

Omim: 605219Human

SwissProt: Q9NR28Human

SwissProt: Q9JIQ3Mouse

Unigene: 169611Human

Unigene: 46716Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Smac (second mitochondria-derived activator of caspase) 又称DIABLO (direct IAP binding

protein),是一种Mitochondrion蛋白,也是重要的促Apoptosis蛋白之一,能够促进Apoptosis,当杀死不正常细胞的机制启动后,Mitochondrion释放出Smac蛋白促使受损或不正常Apoptosis的生化过程就会出现,Smac在诱导TumourApoptosis,增加Tumour细胞的化疗敏感性及增强免疫力等方面有一定的意义和应用前景。Smac是第二个Mitochondrion来源的胱氨酸酶激活剂,它通过拮抗或中和一种或几种凋亡抑制蛋白(IAP)家族成员而发挥其促凋亡作用。