

Anti-Smac/Diablo Antibody

Catalog Number: A03790

About DIABLO

Apoptosis is a conserved cell suicide program essential for the development and homeostasis of multi-cellular organisms. Abnormal inhibition of apoptosis is a hallmark of cancer and autoimmune diseases, whereas excessive cell death is found in neurodegenerative disorders such as Alzheimers disease. Executioners of the apoptotic program are cysteine proteases termed caspases that exist as inactive zymogens in living cells and are activated during apoptosis. Active caspases cleave key intracellular protein substrates, resulting in the characteristic morphological changes associated with apoptosis. The release of cytochrome c from the mitochondria triggers the oligomerization of Apaf-1 in an ATP/dATP-dependent manner and induces the autoactivation of caspase-9. Active caspase-9 in turn activates downstream effector caspases including caspase -3, -6 and -7.

Overview

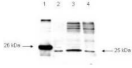
Product Name	Anti-Smac/Diablo Antibody
Reactive Species	Human
Description	Boster Bio Anti-Smac/Diablo Antibody (Catalog # A03790). Tested in WB applications. This antibody reacts with Human.
Application	ELISA, IP, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q9NR28

Technical Details

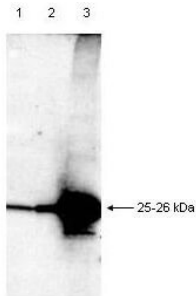
Immunogen	This whole rabbit serum was prepared by repeated immunizations with recombinant His6-tagged human Smac/DIABLO protein (amino acids 56-239).
Predicted Reactive Species	Bovine, Canine, Equine, Guinea Pig, Rabbit, Yeast, Zebrafish
Cross Reactivity	No cross reactivity with other proteins.
Isotype	Antiserum

Form	Liquid (sterile filtered)
Concentration	85 mg/mL by Refractometry
Purification	This antiserum is directed against human Smac/DIABLO and is useful in determining its presence in various assays.
Suggested Dilutions	ELISA: 1:5,000 - 1:20,000 IP: 1:100 WB: 1:1,000 - 1:2,000 This antibody was tested by immunoblot and reacts with human Smac/DIABLO protein. Lysates from human HeLa and LNCaP cells are positive for Smac/DIABLO. Other animal tissues have not been tested.

Anti-Smac/Diablo Antibody (A03790) Images



Western blot using anti-Smac detects a 26 kDa band when 1 μ g of recombinant Smac is applied (lane 1). Lane 2 shows Smac detection when 30 μ g of 1% NP-40 treated cell lysate from HeLa cells is applied. Lanes 3 & 4 show 30 μ g each of cytosolic fractions from HeLa cell lysates both with (lane 3) and without (lane 4) treatment with 30 μ M etoposide. Recombinant Smac migrates slower than the native form because of the His6-tag. The blot was incubated overnight with a 1:1000 dilution of anti-Smac in TBST. Detection occurs using a 1:1000 dilution of HRP Goat-a-Rabbit with visualization via ECL. Film exposure approximately 1'



Anti-Smac is shown to detect a 25-26 kDa band in partially purified recombinant human Smac protein by western blot. Lanes 1-3 are loaded with 1, 10 and 100 ng of protein per lane, respectively. The blot was incubated overnight with a 1:1000 dilution of anti-Smac in TBST. Detection occurs using a 1:1000 dilution of HRP Goat-a-Rabbit with visualization via ECL. Film exposure approximately 1'. Other detection systems will yield similar results.

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Anti-Smac/Diablo Antibody

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