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Product datasheet for TA319299

DIABLO Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:5,000 - 1:20,000, WB: 1:1,000 - 1:2,000, IP: 1:100
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This whole rabbit serum was prepared by repeated immunizations with recombinant His6-tagged human Smac/DIABLO protein (amino acids 56-239).
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	diablo IAP-binding mitochondrial protein
Database Link:	NP_063940 Entrez Gene 56616 Human Q9NR28
Synonyms:	DFNA64; SMAC

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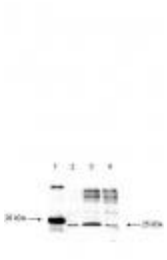
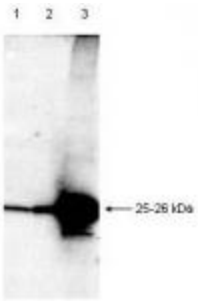
Note: Apoptosis is a conserved cell suicide program essential for the development and homeostasis of multi-cellular organisms. Abnormal inhibition of apoptosis is a hallmark of cancer and autoimmune diseases, whereas excessive cell death is found in neurodegenerative disorders such as Alzheimers disease. 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.

Protein Families: Transmembrane

Product images:



WB using anti-Smac detects a 26 kDa band when 1 ug of recombinant Smac is applied (lane 1). Lane 2 shows Smac detection when 30 ug of 1% NP-40 treated cell lysate from HeLa cells is applied. Lanes 3 & 4 show 30 ug each of cytosolic fractions from HeLa cell lysates both with (lane 3) and without (lane 4) treatment with 30 µM etoposide. Recombinant Smac migrates slower than the native form because of the His6-tag. The primary antibody was used at 1:1000. HRP Goat-a-Rabbit antibody was 1:1000.



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.