

Product Datasheet

SMAC/Diablo Antibody - BSA Free NB100-56311

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-56311

SMAC/Diablo Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

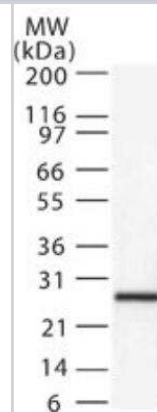
Product Description	
Host	Rabbit
Gene ID	56616
Gene Symbol	DIABLO
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 22751125).
Immunogen	This rabbit polyclonal antibody was developed against two synthetic peptides corresponding to amino acids 199 to 212 and amino acids 226 to 239 of human Smac (Genbank accession no. AAF87716).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:500. Use reported in scientific literature (Hu et al (2004)), Immunohistochemistry-Paraffin 10 ug/ml
Application Notes	Use in Immunohistochemistry-Paraffin reported in scientific literature (Ren et al. (2006))

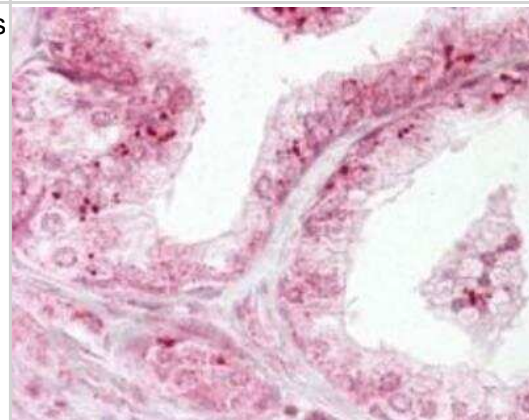


Images

Western Blot: SMAC/Diablo Antibody [NB100-56311] - Analysis of Smac (DIABLO) in HeLa lysate using Smac antibody at 2 ug/ml.



Immunohistochemistry: SMAC/Diablo Antibody [NB100-56311] - Analysis of human prostate using Smac antibody at 10 ug/ml.



Publications

Endo Kazuya, Kohnoe Shunji, Watanabe Akihiro et al. Clinical significance of Smac/DIABLO expression in colorectal cancer. *Oncol Rep.* 2009-02-01 [PMID: 19148507] (Human)

Vucic D, Deshayes K, Ackerly H et al. SMAC negatively regulates the anti-apoptotic activity of melanoma inhibitor of apoptosis (ML-IAP). *J Biol Chem.* 2002-04-05 [PMID: 11801603]

Liu T, Brouha B, Grossman D. Rapid induction of mitochondrial events and caspase-independent apoptosis in Survivin-targeted melanoma cells. *Oncogene.* 2004-01-08 [PMID: 14712209]

Qin JZ, Ziffra J, Stennett L et al. Proteasome inhibitors trigger NOXA-mediated apoptosis in melanoma and myeloma cells. *Cancer Res.* 2005-07-15 [PMID: 16024630]

Wu J, Parungo C, Wu G et al. PR39 inhibits apoptosis in hypoxic endothelial cells: role of inhibitor apoptosis protein-2. *Circulation.* 2004-04-06 [PMID: 15023888] (WB)

Details:

Smac/DIABLO (IMG-248). WB: Bovine aortic endothelial cells (BAEC) transfected with pcDNA4-Smac, Fig 6. Note: The specificity of the Smac/DIABLO was validated by WB in Smac transfected BAEC's, Fig 6.

Liu J, Dai Q, Chen J et al. Phospholipid scramblase 3 controls mitochondrial structure, function, and apoptotic response. *Mol Cancer Res.* 2003-10-01 [PMID: 14573790]

Qin JZ, Stennett L, Bacon P et al. p53-independent NOXA induction overcomes apoptotic resistance of malignant melanomas. *Mol Cancer Ther.* 2004-08-01 [PMID: 15299072] (WB)

Details:

Smac/DIABLO (IMG-248A). WB: Human melanoma (RJ002L) cells treated with γ -secretase tripeptide inhibitor (GSI), Fig 3. Note: GSI triggers release of SMAC from mitochondria into cytoplasm in RJ002L cells after 6 hours, Fig 3.

Lee JC, Lee CH, Su CL et al. Justicidin A decreases the level of cytosolic Ku70 leading to apoptosis in human colorectal cancer cells. *Carcinogenesis.* 2005-10-01 [PMID: 15905197] (WB)

Details:

Caspase-3 (IMG-144A) [WB, Fig 3A (HT-29 and HCT 116 cells)].

Yoo NJ, Kim HS, Kim SY et al. Immunohistochemical analysis of Smac/DIABLO expression in human carcinomas and sarcomas. *APMIS.* 2003-03-01 [PMID: 12752217]

Ren Y, Akyurek N, Schlette E et al. Expression of Smac/DIABLO in B-cell non-Hodgkin and Hodgkin lymphomas. *Hum Pathol.* 2006-11-01 [PMID: 16949641] (IHC-P, WB)

Mizutani Y, Nakanishi H, Yamamoto K et al. Downregulation of Smac/DIABLO expression in renal cell carcinoma and its prognostic significance. *J Clin Oncol.* 2005-01-20 [PMID: 15572731] (WB, Human)

Details:

Smac/DIABLO (IMG-248). WB: Human renal cell carcinoma (RCC) normal kidney, Fig 1 & 2.

Hu P, Han Z, Couvillon AD, Exton JH. Critical role of endogenous Akt/IAPs and MEK1/ERK pathways in counteracting endoplasmic reticulum stress-induced cell death. *J Biol Chem.* 2004-11-19 [PMID: 15339911] (ICC/IF)

Details:

IF/ICC: MCF-7 cells treated with thapsigargin, Fig 7A.

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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