

# Product Datasheet

## SMAC/Diablo Antibody (78-1-118) - BSA Free NB500-213

Unit Size: 0.2 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NB500-213**

SMAC/Diablo Antibody (78-1-118) - BSA Free

Product Information	
<b>Unit Size</b>	0.2 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	78-1-118
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Unpurified
<b>Buffer</b>	Ascites
<b>Target Molecular Weight</b>	25 kDa

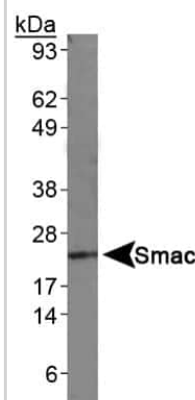
Product Description	
<b>Description</b>	Novus Biologicals Mouse SMAC/Diablo Antibody (78-1-118) - BSA Free (NB500-213) is a monoclonal antibody validated for use in WB, ICC/IF and IP. Anti-SMAC/Diablo Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	56616
<b>Gene Symbol</b>	DIABLO
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Recombinant mature human Smac (lacks amino acids 1-55 present in Smac precursor). [UniProt# Q9NR28]

Product Application Details	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:10 - 1:500
<b>Application Notes</b>	This Smac (78-1-118) antibody is useful for Immunoprecipitation and Western blot, where a band is seen at ~25 kDa. For better results, IP prior to Western blot is recommended. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.



## Images

Western Blot: Smac Antibody (78-1-118) [NB500-213] - HeLa whole cell extract lysates.



## Publications

Zhang Yi, Wang Xin, Baranov Sergei V et al. Dipyrone inhibits neuronal cell death and diminishes hypoxic/ischemic brain injury. *Neurosurgery* 2011-01-01 [PMID: 21552169] (WB, Mouse)

Hwang HJ, Dornbos P, Steidemann M et al. Mitochondrial-targeted aryl hydrocarbon receptor and the impact of 2,3,7,8-tetrachlorodibenzo-p-dioxin on cellular respiration and the mitochondrial proteome. *Toxicol. Appl. Pharmacol.* 2016-04-20 [PMID: 27105554] (WB, Mouse)

Sirianni AC, Jiang J, Zeng J et al. N-acetyl-L-tryptophan, but not N-acetyl-D-tryptophan, Rescues Neuronal Cell Death in Models of Amyotrophic Lateral Sclerosis. *J. Neurochem.* 2015-05-30 [PMID: 26031348] (WB, Mouse)

Zhang Y, Chen LY, Han X et al. Melatonin inhibits the caspase-1/cytochrome c/caspase-3 cell death pathway, inhibits MT1 receptor loss and delays disease progression in a mouse model of amyotrophic lateral sclerosis. *Neurobiol Dis* 2013-03-26 [PMID: 23537713] (WB, Mouse)

Zhang, WH et al. Nortriptyline protects mitochondria and reduces cerebral ischemia/hypoxia injury. *Stroke*;39(2):455-62. 2008-02-01 [PMID: 18174477]

Wang, X et al. Minocycline inhibits caspase-independent and -dependent mitochondrial cell death pathways in models of Huntington's disease. *Proc Natl Acad Sci U S A*;100(18):10483-7. 2003-09-02 [PMID: 12930891] (WB, ICC/IF, Rat, Mouse)

Wang X, Sirianni A, Pei Z et al. The Melatonin MT1 Receptor Axis Modulates Mutant Huntingtin-Mediated Toxicity. *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience*;31(41):14496-14507. 2011-10-12 [PMID: 21994366]

Wang X et al. Inhibitors of cytochrome c release with therapeutic potential for Huntington's disease. *J Neurosci*;28(38):9473-85. 2008-09-17 [PMID: 18799679] (WB, Rat, Mouse)

Liu, JC et al. CELL, TUMOR, STEM CELL BIOLOGY: Identification of Tumorsphere- Tumor-Initiating Cells in HER2/Neu-Induced Mammary Tumors. *Cancer Res* 67:8671-8681. 2007-09-01 [PMID: 17875707]

Zhang, WH et al. Fundamental role of the Rip2/caspase-1 pathway in hypoxia and ischemia-induced neuronal cell death. *Proc Natl Acad Sci U S A*;100(26):16012-7. 2003-12-23 [PMID: 14663141] (WB, Mouse)

## Procedures

### Immunoprecipitation protocol specific for Smac Antibody (NB500-213)

SMAC/Diablo Antibody (78-1-118):

Procedure Guide for NB 500-213 Monoclonal anti-Survivin (clone 58.22)

#### Immunoprecipitation Procedure

1) Lyse cells plated in a 60mm dish:

a) 300 ul CHAPS buffer [50mM Tris-HCl, pH 7.5/50mM NaCl/1mM EDTA/1% NP-40/0.1% CHAPS/1mM NaVO<sub>4</sub>/1mM PMSF]

b) rock for 20 minutes at 4C

2) Harvest lysate and spin down the insoluble material at 14K rpm.

3) Collect soluble fraction.

4) Pre-clear lysate with 40 ul of 50:50 slurry of Protein A beads, rocking for 1 hour at 4C.

5) Spin down beads at 2K rpm, at 4C.

6) Collect pre-cleared lysate.

7) Incubate lysate with 5-7ug of anti-Survivin (NB 500-213) overnight, rocking at 4C.

8) Add 50 ul of Protein A 50:50 slurry for 2 hours, rocking at 4C.

9) Wash beads with 200 ul of CHAPS buffer, three times.

10) Denature immune complex by adding 2x Sample Buffer, containing 2-ME.

11) Boil for 10 minutes and load onto an SDS-gel.





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### **Products Related to NB500-213**

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NB800-PC6	293 Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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