

SMAC Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP6820b**Specification**

SMAC Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9NR28](#)**SMAC Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 56616

Other Names

Diablo homolog, mitochondrial, Direct IAP-binding protein with low pI, Second mitochondria-derived activator of caspase, Smac, DIABLO, SMAC

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6820b](/products/AP6820b) was selected from the C-term region of human SMAC. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SMAC Antibody (C-term) Blocking Peptide - Protein InformationName DIABLO ([HGNC:21528](#))**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 (PubMed: [15200957](http://www.uniprot.org/citations/15200957), PubMed: [36758104](http://www.uniprot.org/citations/36758104), PubMed: [36758105](http://www.uniprot.org/citations/36758105), PubMed: [36758106](http://www.uniprot.org/citations/36758106)).

Cellular Location

Mitochondrion. Cytoplasm, cytosol Note=Released into the cytosol in a PARL-dependent manner when cells undergo apoptosis.

Tissue Location

Ubiquitously expressed with highest expression in testis. Expression is also high in heart, liver, kidney, spleen, prostate and ovary. Low in brain, lung, thymus and peripheral blood leukocytes. Isoform 3 is ubiquitously expressed

SMAC Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SMAC Antibody (C-term) Blocking Peptide - Images**SMAC Antibody (C-term) Blocking Peptide - Background**

SMAC is an inhibitor of apoptosis protein (IAP)-binding protein. This mitochondrial protein enters the cytosol when cells undergo apoptosis, and it moderates the caspase inhibition of IAPs.

SMAC Antibody (C-term) Blocking Peptide - References

Carbone,A., et.al., Genes Chromosomes Cancer 47 (12), 1067-1075 (2008)