

DIABLO / SMAC Antibody (clone 79-1-83)
Mouse Monoclonal Antibody
Catalog # ALS12892

Specification

DIABLO / SMAC Antibody (clone 79-1-83) - Product Information

Application	IHC
Primary Accession	O9NR28
Reactivity	Human, Monkey
Host	Mouse
Clonality	Monoclonal
Calculated MW	27kDa KDa

DIABLO / SMAC Antibody (clone 79-1-83) - 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

Human and monkey Smac/DIABLO.

Reconstitution & Storage

Store at -20°C.

Precautions

DIABLO / SMAC Antibody (clone 79-1-83) is for research use only and not for use in diagnostic or therapeutic procedures.

DIABLO / SMAC Antibody (clone 79-1-83) - Protein Information

Name 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.

Cellular Location

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

Tissue Location

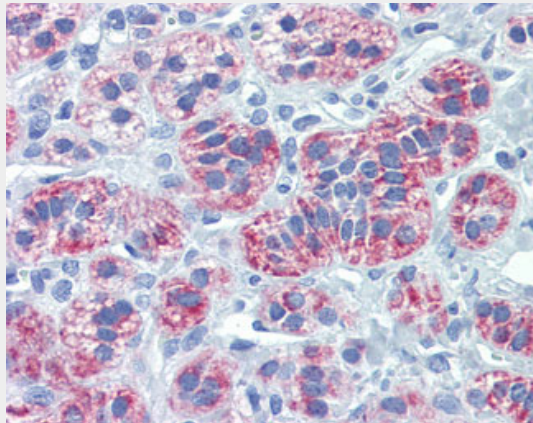
Ubiquitously expressed with highest expression in testis. Expression is also high in heart, liver, kidney, spleen, prostate and ovary. Low in brain, lung, thymus and peripheral blood leukocytes. Isoform 3 is ubiquitously expressed

DIABLO / SMAC Antibody (clone 79-1-83) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DIABLO / SMAC Antibody (clone 79-1-83) - Images



Anti-DIABLO / SMAC antibody IHC of human adrenal.

DIABLO / SMAC Antibody (clone 79-1-83) - Background

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/bruca by inhibiting its binding to caspases. Isoform 3 attenuates the stability and apoptosis-inhibiting activity of XIAP/BIRC4 by promoting XIAP/BIRC4 ubiquitination and degradation through the ubiquitin-proteasome pathway. Isoform 3 also disrupts XIAP/BIRC4 interacting with processed caspase-9 and promotes caspase-3 activation. Isoform 1 is defective in the capacity to down-regulate the XIAP/BIRC4 abundance.

DIABLO / SMAC Antibody (clone 79-1-83) - References

- Du C., et al. Cell 102:33-42(2000).
Srinivasula S.M., et al. J. Biol. Chem. 275:36152-36157(2000).
Fu J., et al. J. Biol. Chem. 278:52660-52672(2003).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Scherer S.E., et al. Nature 440:346-351(2006).