

Catalog No. LF-PA0045

POLYCLONAL ANTIBODY



Anti-Smac/Diablo (Anti-Second mitochondria-derived activator)

Background : The mitochondrial protein Smac/DIABLO(second mitochondria-derived activator) performs a critical function in apoptosis by eliminating the inhibitory effect of IAPs (inhibitor of apoptosis proteins) on caspases. The newly synthesized Smac protein contains 239 amino acids. Its N-terminal 55 residues encode the mitochondrial-targeting sequence and are proteolytically removed in the mature Smac protein. In the intrinsic cell death pathway, the key event leading to the activation of caspases is the release of several pro-apoptotic proteins such as Smac/DIABLO from the intermembrane space of mitochondria into the cytosol. During apoptosis, Smac is released from mitochondria and re-activates the processed initiator and effector caspases by relieving IAP-mediated inhibition. Furthermore, Smac/DIABLO plays an important regulatory role in the sensitization of cancer cells to both immune-and drug-induced apoptosis.

Immunogen : Synthetic peptide

Host : Rabbit

Type : Purified

Isotype : IgG

Size : 100µl

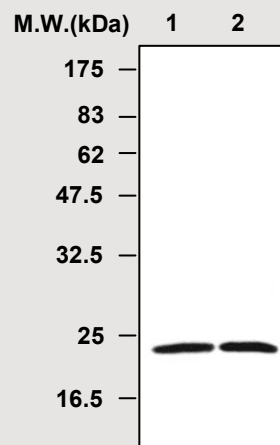
Compositon : PBS containing 50% glycerol

Positive control : HeLa cell lysate

Storage : Store for 1 year at -20°C from date of shipment

Species cross reactivity

Human	Mouse	Rat
+	-	-



Immunoblot Analysis of cell lysates

Lane 1 : HeLa cell lysate

Lane 2 : K562 cell lysate

Applications :

Western blotting (1:1,000~2,000)

Immunoprecipitation was not tested

Background Reference :

1) Noma K. et al, (2006) Am J Physiol Cell Physiol. vol.290(3): pp.C661-8

2) Sakabe M. et al, (2006) Dev Dyn. vol.235(1): pp.94-104

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