

Anti-Smac/Diablo Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

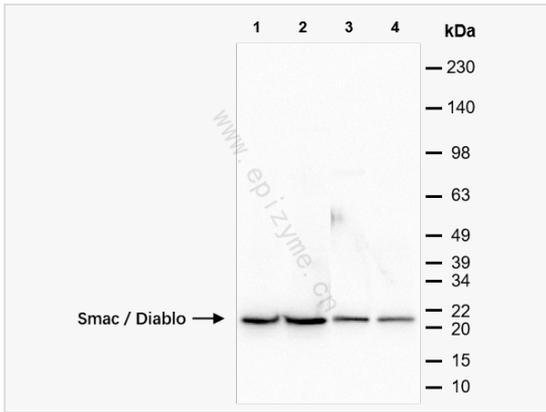
Catalog # R014293

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	65I12N81
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Smac/Diablo
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Smac/Diablo Rabbit mAb [65I12N81] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	0610041G12Rik, DBLOH_HUMAN, DBOH, DFNA64, diablo, Diablo homolog (Drosophila), Diablo homolog, Diablo homolog mitochondrial, Diablo IAP binding mitochondrial protein, Diablo like protein, DIABLO S, Direct IAP binding protein with low pI, Direct IAP-binding protein with low pI, FLJ10537, FLJ25049, mitochondrial, Mitochondrial Smac protein, Second mitochondria derived activator of caspase, Second mitochondria-derived activator of caspase, second mitochondrial activator of caspases, SMAC 3, Smac, Smac protein, SMAC3.
Calculated MW	Calculated MW: 27 kDa; Observed MW: 21 kDa
Uniprot ID	Q9NR28
Gene ID	56616
Background	Smac/Diablo is a 21 kDa mammalian mitochondrial protein that functions as a regulatory component during apoptosis. Upon mitochondrial stress, Smac/Diablo is released from mitochondria and competes with caspases for binding of IAPs (inhibitor of apoptosis proteins). The interaction of Smac/Diablo with IAPs relieves the inhibitory effect of the IAPs on caspases.
Cellular Location	Mitochondrion. Released into the cytosol 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.



Western Blot - Anti-Smac/Diablo Rabbit mAb [65112N81]

All lanes: R014293 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: Rat heart whole tissue lysates

Lane 4: Rat muscle whole tissue lysates

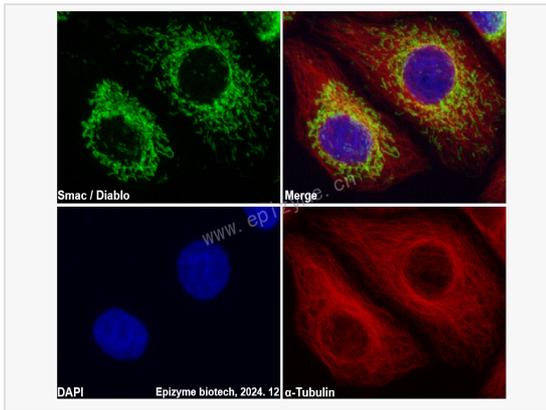
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 27 kDa

Observed band size: 21 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Smac/Diablo Rabbit mAb [65112N81]

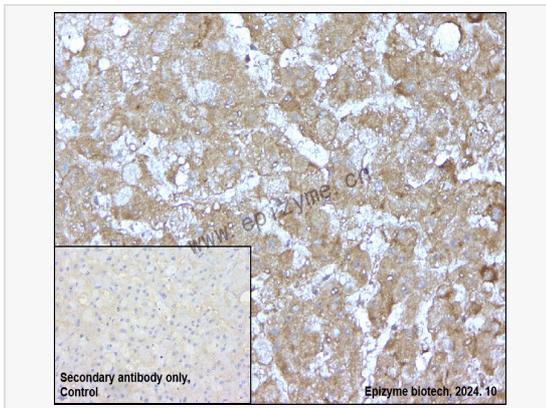
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014293 at 1:100 dilution and alpha-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Smac/Diablo Rabbit mAb [65112N81]

Sample: Paraformaldehyde-fixed, paraffin embedded human hepatoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

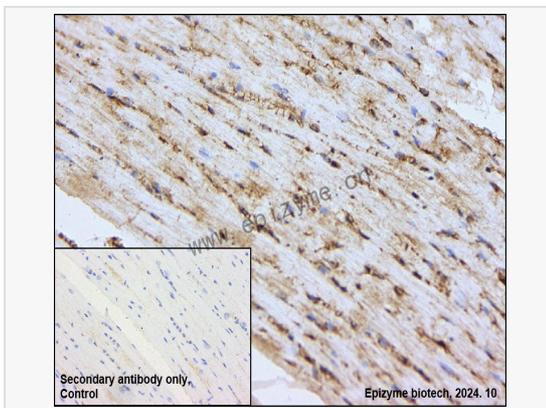
Primary antibody: R014293 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Smac/Diablo Rabbit mAb [65112N81]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse heart tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014293 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.