

DIABLO Rabbit mAb

Catalog No: #48991

Package Size: #48991-1 50ul #48991-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

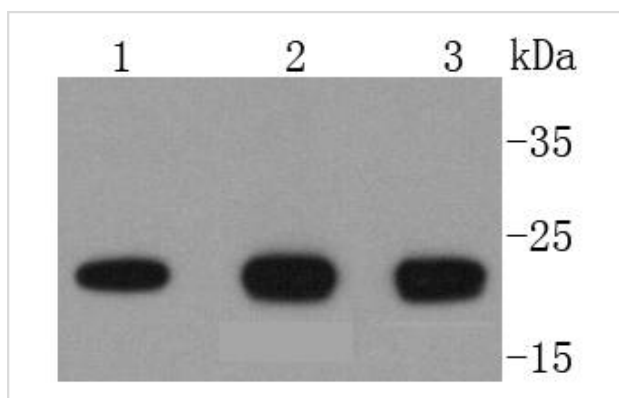
Description

Product Name	DIABLO Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC67-06
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	0610041G12Rik antibody DBLOH_HUMAN antibody DBOH antibody DFNA64 antibody diablo antibody Diablo homolog (Drosophila) antibody Diablo homolog antibody Diablo homolog mitochondrial antibody Diablo IAP binding mitochondrial protein antibody Diablo like protein antibody DIABLO S antibody Direct IAP binding protein with low pI antibody Direct IAP-binding protein with low pI antibody FLJ10537 antibody FLJ25049 antibody mitochondrial antibody Mitochondrial Smac protein antibody Second mitochondria derived activator of caspase antibody Second mitochondria-derived activator of caspase antibody SMAC 3 antibody Smac antibody Smac protein antibody SMAC3 antibody
Accession No.	Swiss-Prot#:Q9NR28
Calculated MW	21 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

Images

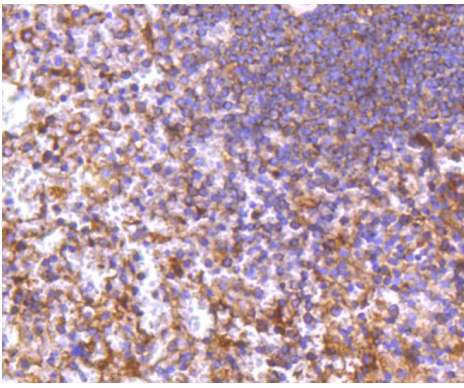


Western blot analysis of DIABLO on different lysates using anti-DIABLO antibody at 1/1,000 dilution. Positive control:

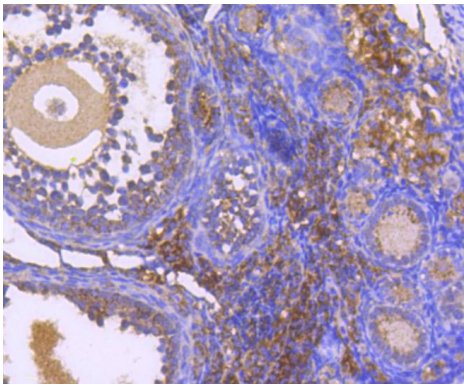
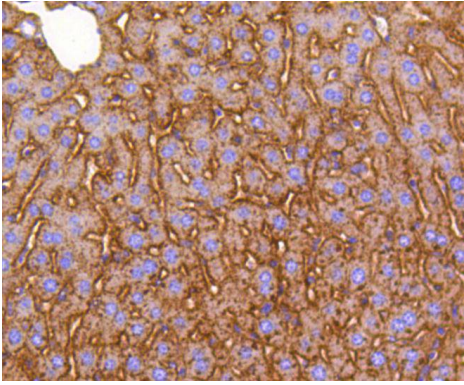
Lane 1: Jurkat

Lane 2: Hela

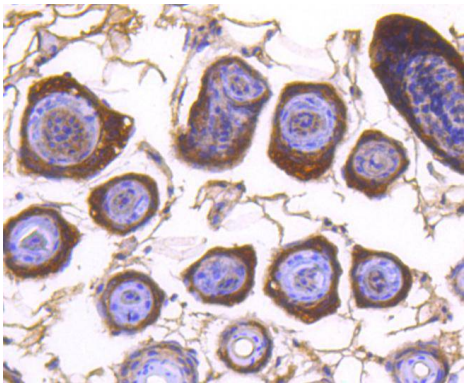
Lane 3: MCF-7



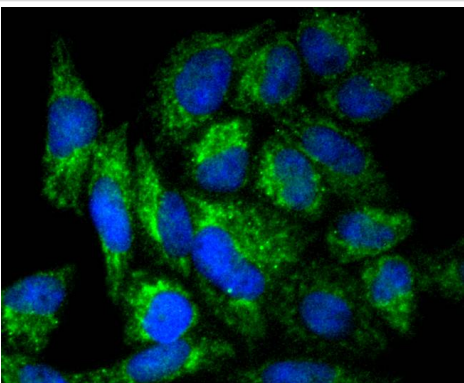
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-DIABLO antibody. Counter stained with hematoxylin.



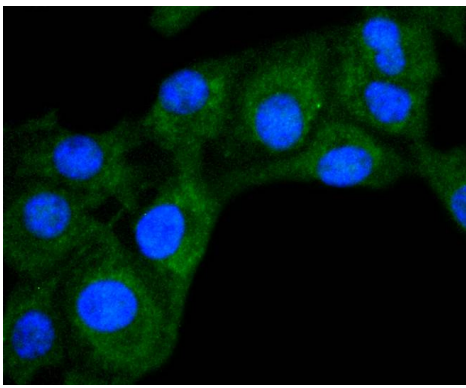
Immunohistochemical analysis of paraffin-embedded mouse ovary tissue using anti-DIABLO antibody. Counter stained with hematoxylin.



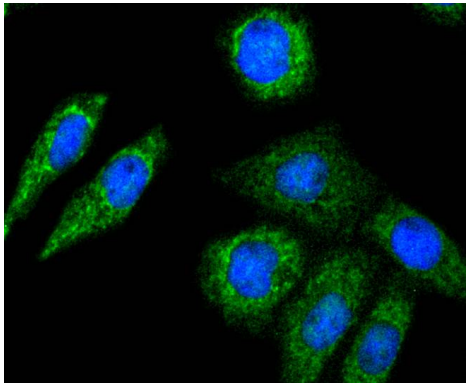
Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-DIABLO antibody. Counter stained with hematoxylin.



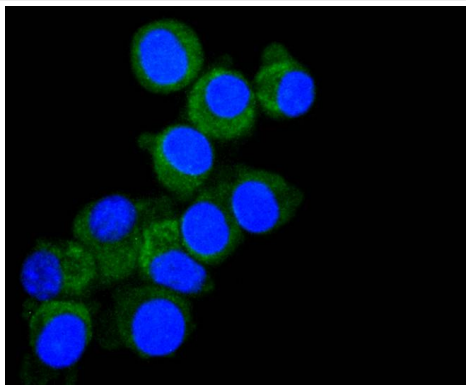
ICC staining DIABLO in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



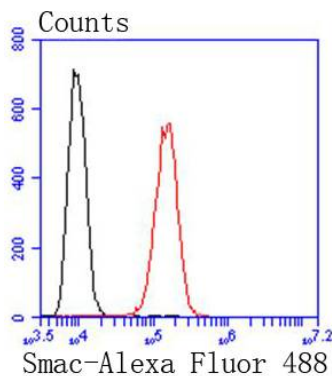
ICC staining DIABLO in B16-F1 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining DIABLO in LO2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining DIABLO in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HepG2 cells with DIABLO antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The activation of caspases is a key regulatory step in apoptosis. Once cytochrome c is released from the mitochondria into the cytosol, it binds Apaf-1 to form an oligomeric cytochrome c/Apaf-1 complex, which induces caspase activation. Inhibitors of Apoptosis Proteins (IAPs), are a family of proteins that regulate the cytochrome c/Apaf-1 caspase activating pathway. Like cytochrome c, Smac (for second mitochondria-derived activator of caspase, also designated DIABLO in mouse for direct IAP binding protein with low PI) promotes caspase activation in the cytochrome c/Apaf-1/caspase-9 pathway by binding IAPs and preventing them from inhibiting caspases. In healthy cells, Smac is a mitochondrial protein, but when cells undergo apoptosis, Smac is released into the cytosol.

References

1. Masoumi KC et al. Identification of a novel protein kinase Cd-Smac complex that dissociates during paclitaxel-induced cell death. *FEBS Lett* 586:1166-72 (2012).
2. Lamers F et al. Identification of BIRC6 as a novel intervention target for neuroblastoma therapy. *BMC Cancer* 12:285 (2012).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.