Data Sheet (Cat.No.TMAC-01147)

Anti-SMAC Antibody (2W730)

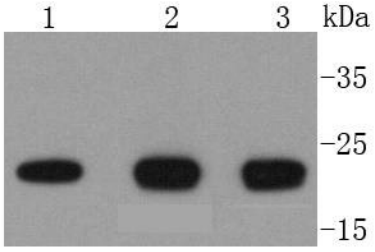
Product Details

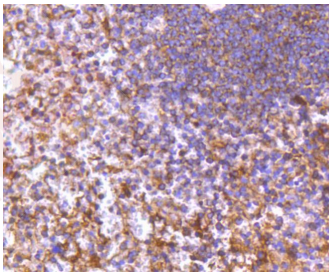
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 21 kDa.
Clone:	2W730
Purification:	ProA affinity purified

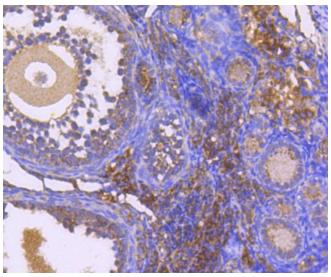
Applications

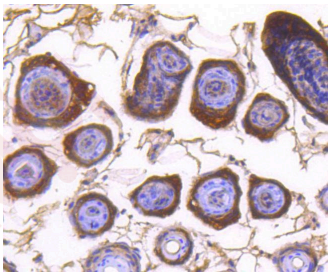
Verified Activity:

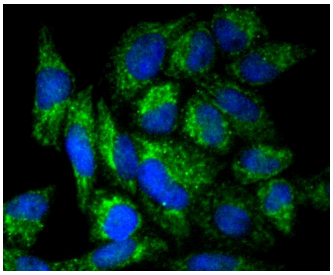
1. Western blot analysis of DIABLO on different lysates using anti-DIABLO antibody at 1/1,000 dilution. Positive control: Lane 1: Jurkat, Lane 2: Hela, Lane 3: MCF-7.
2. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-DIABLO antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse overy tissue using anti-DIABLO antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-DIABLO antibody. Counter stained with hematoxylin.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.

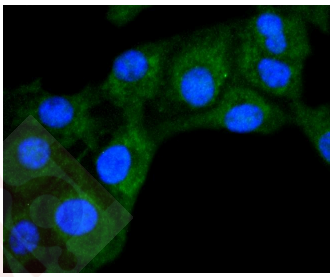


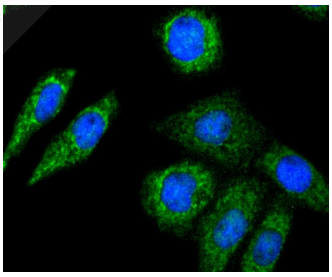


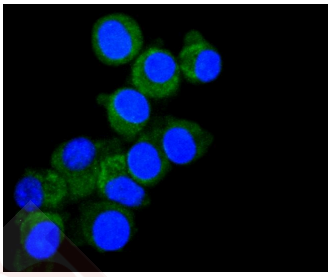


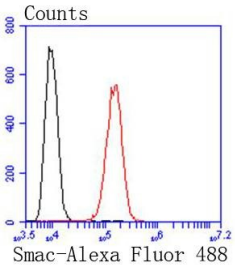












Application: FCM,ICC/IF,IHC,IP,WB

Recommended: WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q9NR28

Synonyms: SMAC;DFNA64;diablo, IAP-binding mitochondrial protein

Research 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.

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