# **PRODUCT INFORMATION**

Catalog number ATGA0266

Clone No. AT19F2

**Product type** Monoclonal Antibody

UnitProt No. Q9NR28

NCBI Accession No. NP\_063940

#### **Alternative Names**

Diablo isoform 1, SMAC3, DIABLO-S, FLJ10537, FLJ25049, Diablo isoform 1, SMAC/Diablo, Diablo isoform 1 0610041G12Rik, DBOH, Diablo homolog, DIABLO S, Diablo homolog (Drosophila), Mitochondrial Smac protein, Diablo homolog mitochondrial, SMAC 3, Smac protein, Direct IAP binding protein with low pl, Second mitochondria derived activator of caspase

## **PRODUCT SPECIFICATION**

Antibody Host Mouse

Reacts With Human

**Concentration** 1mg/ml (determined by BCA assay)

#### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

#### Immunogen

Recombinant human SMAC/Diablo (56-239aa) purified from E. coli

# Isotype

lgG2a kappa

**Purification Note** By protein-A affinity chromatography

#### Application

ELISA,WB,ICC/IF,FACS

#### Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain



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optimal results.

#### Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

#### Description

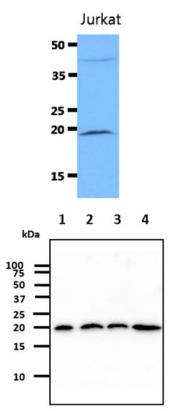
SMAC/Diablo is one of the proapoptotic proteins. SMAC promotes caspase activation in the cytochrome c/Apaf-1/caspase-9 pathway by binding to inhibitor of apoptosis proteins (IAPs) and removing their inhibitory activity. In healthy cells, SMAC is a mitochondrial protein, but when cells undergo apoptosis, SMAC is released into the cytosol. SMAC is 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

#### **General References**

McNeish. I.A., et al. (2003) Exp Cell Res 286(2): 186-198. Yu. J., et al. (2007) Oncogene 26(29): 4189-4198. Vucic. D., et al. (2002) J Biol Chem 277(14): 12275-12279.

### DATA

#### Western blot analysis (WB)



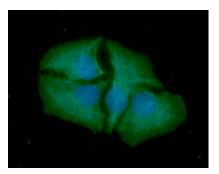
The cell lysate of Jurkat (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SMAC antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human SMAC antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: 293T cell lysate Lane 2.: A431 cell lysate Lane 3.: Hep3B cell lysate Lane 4.: MCF7 cell lysate

#### Immunocytochemistry/Immunofluorescence (ICC/IF)

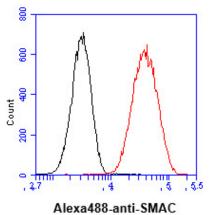


NKMAXBiO We support you, we believe in your research Human SMAC/Diablo antibody Catalog Number: ATGA0266



ICC/IF analysis of SMAC in HeLa cells. The cell was stained with ATGA0266 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of SMAC in HeLa cell line, staining at 2-5ug for  $1\times10^{6}$  cells (red line). The secondary antibody used goat antimouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).