bs-0667R **[Primary Antibody]**

Smac Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 56616 **SWISS:** Q9NR28

Target: Smac

Immunogen: KLH conjugated synthetic peptide derived from human Smac: 151-239/239.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: bs-1298P is one synthetic peptide derived from human Smac. This gene encodes an inhibitor of apoptosis protein (IAP)-binding protein. The encoded mitochondrial protein enters the cytosol when cells undergo apoptosis, and it moderates the caspase inhibition of IAPs. Multiple polyadenylation sites have been found for this gene. Several alternatively spliced transcript variants that encode distinct isoforms have been described for this gene but the validity of some transcripts, and their predicted ORFs, has not been determined conclusively. The inhibitor of apoptosis (IAP) proteins regulate programmed cell death by inhibiting members of the caspase family of enzymes. A novel mammalian protein that binds to IAPs and neutralizes their inhibitory effect on caspases has been designated Smac/DIABLO. This is a mitochondrial protein that is released along with cytochrome c during apoptosis and activates the cytochrome c/Apaf-1/caspase-9 pathway. Analysis of the structural basis of Smac/DIABLO reveals that the N-terminal amino acids are required for binding of Smac/DIABLO to IAPs and activation of caspases. Smac/DIABLO is expressed in a variety of human and mouse tissues.

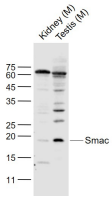
Applications: **WB** (1:500-2000)
ICC/IF (1:100)

Reactivity: Human, Mouse (predicted: Rat)

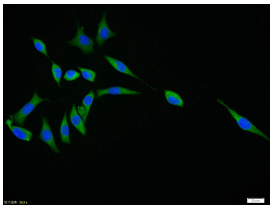
Predicted MW.: 21 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Kidney (Mouse) Lysate at 40 ug Lane 2: Testis (Mouse) Lysate at 40 ug Primary: Anti-alpha smooth muscle Actin (bs-10196R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 21 kD Observed band size: 19 kD



Tissue/cell:SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Antibody incubation with (Smac) polyclonal Antibody, Unconjugated (bs-0667R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=2.686]** Hu, Yikai. et al. ER stress–related protein, CHOP, may serve as a biomarker of mechanical asphyxia: a

primary study. Int J Legal Med. 2022 Feb;:1-14 WB,IF ;Rat,Human. 35122137