

## Anti-Smac (CT) Antibody

### ORDERING INFORMATION

**Catalog No.:** 1409

**Size:** 100ug IgG in PBS, pH 7.4, purified by immunoaffinity chromatography.

### BACKGROUND

Inhibitors of apoptosis proteins (IAPs) regulate programmed cell death by inhibiting members of the caspase family of enzymes. A novel mammalian protein that binds to IAPs and neutralizes the inhibitory effect of IAPs on caspases has been identified and designated Smac/DIABLO. Smac is a mitochondrial protein that is released along with cytochrome c during apoptosis and activates the cytochrome c/Apaf-1/caspase-9 pathway. The N-terminal amino acids of Smac are required for binding to IAPs and for activation of caspases. Smac is expressed in a variety of human and mouse tissues.

### SPECIFICATION SUMMARY

**Antigen:** Synthetic peptide corresponding to aa 225-239 of human Smac (accession no. AAF87716).

**Host Species:** Rabbit

**Stabilizers:** None

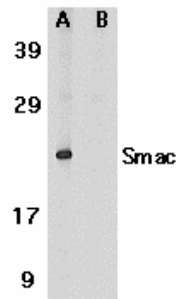
**Preservatives:** 0.02% sodium azide.

### SPECIFICITY

This antibody recognizes human, mouse, and rat Smac (25kDa).

### APPLICATIONS

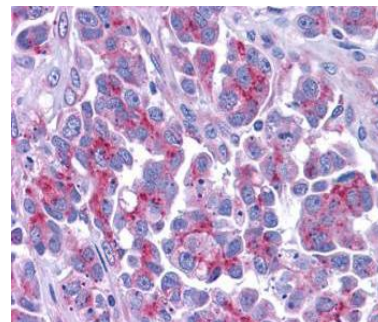
*Immunoblotting:* use at 1ug/ml.



Western blot analysis of Smac in human heart tissue lysate in the absence (A) or presence (B) of blocking peptide with Smac antibody at 1µg/ml.

*Positive control:* Human heart tissue lysate.

*Immunohistochemistry:* use at 5ug/ml



Immunohistochemical staining of Smac in human ovary with Smac antibody at 5µg/ml.

These are recommended concentrations. Enduser should determine optimal concentrations for their applications.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*