upstate | CHEMICON | Linco
THE EXPERTISE OF UPSTATE®, CHEMICON® AND LINCO® IS NOW A PART OF MILLIPORE

RABBIT ANTI-SMAC/DIABLO POLYCLONAL ANTIBODY

CATALOG NUMBER: AB3609

LOT NUMBER:

QUANTITY: 100 µg

CONCENTRATION: 1 mg/ml

BACKGROUND: 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.

SPECIFICITY: Detects Smac/DIABLO in an approximately 25 kDa band by western blot.

IMMUNOGEN: Peptide corresponding to aa 225-239 (EERAESEQEAYLRED) of human Smac/DIABLO.

APPLICATIONS: Western blot: 1:500 to 1:1000
Human heart tissue lysate can be used as a positive control.

Optimal working dilutions must be determined by end user.

SPECIES REACTIVITIES: Human, mouse, rat

FORMAT: Affinity purified immunoglobulin

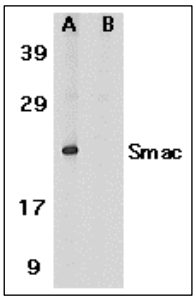
PRESENTATION: Liquid in PBS containing 0.02% sodium azide.

STORAGE/HANDLING: Maintain at 4°C for up to 6 months.

REFERENCES:

1. Du, C. et al. (2000). *Cell* **102**: 33-42.
2. Verhagen, A.M. et al. (2000). *Cell* **102**: 43-53.
3. Srinivasula, S.M. et al. (2000). *J. Biol. Chem* **275**: 36152-36157.
4. Chai, J. et al. (2000). *Nature* **406**: 855-862.
5. Liu, Z. et al. (2000). *Nature* **408**: 1004-1008.
6. Wu, G. et al. (2000). *Nature* **408**: 1008-1012.

28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com



Western blot analysis of Smac in human heart tissue lysate in the absence (A) or presence (B) of blocking peptide with anti-Smac (AB3609) at 1 µg /ml.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com