

DESCRIPTION

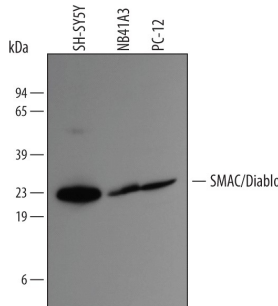
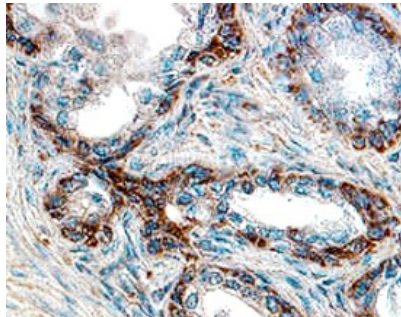
Species Reactivity	Human
Specificity	Detects human, mouse, and rat SMAC/Diablo in direct ELISAs and Western blots. No cross-reactivity with recombinant human NME3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SMAC/Diablo Ala56-Asp239 Accession # Q9NR28
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human SMAC/Diablo by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line, mouse NB41A3 mouse neuroblastoma cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human SMAC/Diablo Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7891) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SMAC/Diablo at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.</p>	<p>Immunohistochemistry</p>  <p>SMAC/Diablo in Human Prostate. SMAC/Diablo was detected in immersion fixed paraffin-embedded sections of human prostate using Goat Anti-Human SMAC/Diablo Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7891) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of glandular epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SMAC (second mitochondria derived activator of caspase)/Diablo promotes caspase activation by interacting with the inhibitor of apoptosis (IAP) proteins in the cytochrome c/Apaf-1/caspase-9 pathway.

References:

1. Du, C. *et al.* (2000) *Cell* **102**:33.
2. Chai, J. *et al.* (2000) *Nature* **406**:855.
3. Srinivasula, S. *et al.* (2000) *J. Biol. Chem.* **275**:36152.
4. Ekert, P. *et al.* (2001) *J. Cell Biol.* **152**:483.
5. Verhagen, A. (2000) *Cell* **102**:43.