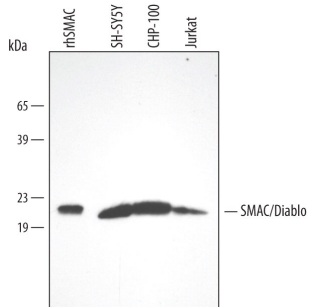
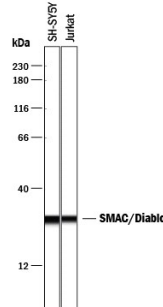



DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human SMAC/Diablo in Western blots. Also detects mouse and rat SMAC/Diablo when the salt concentration of blotting buffer is reduced to 0.15 M NaCl, and 1 µg/mL anti-SMAC/Diablo concentration is used.
Source	Polyclonal Rabbit IgG
Purification	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 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
Simple Western	5 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, CHP-100 human neuroblastoma cell line, and Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 0.5 µg/mL Rabbit Anti-Human SMAC/Diablo Antigen Affinity-purified Polyclonal Antibody (Catalog # AF789) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). For additional reference, Recombinant Human SMAC/Diablo (Catalog # 789-SM) (0.5 ng/lane) was included. A specific band for SMAC/Diablo was detected at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 6.</p>	<p>Simple Western</p>  <p>Detection of Human SMAC/Diablo by Simple Western™. Simple Western lane view shows lysates of SH-SY5Y human neuroblastoma cell line and Jurkat human acute T cell leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for SMAC/Diablo at approximately 29 kDa (as indicated) using 5 µg/mL of Rabbit Anti-Human SMAC/Diablo Antigen Affinity-purified Polyclonal Antibody (Catalog # AF789). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p> 

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.