

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat XIAP in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human XIAP Met1-Ser497 (Ser162Cys) Accession # P98170
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.

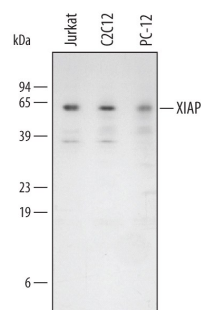
APPLICATIONS

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
Simple Western	5 µg/mL	See Below
Knockout Validated	XIAP is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in XIAP knockout HeLa cell line.	

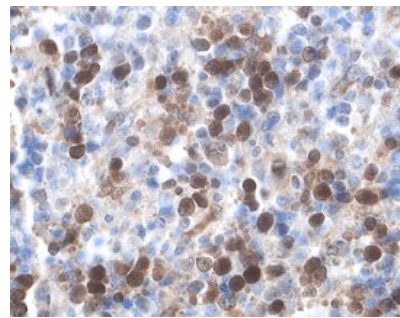
DATA

Western Blot



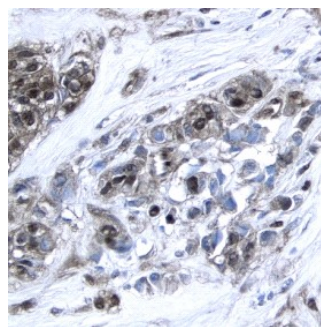
Detection of Human/Mouse/Rat XIAP by Western Blot.
Western blot shows lysates of Jurkat human acute T cell leukemia cell line, C2C12 mouse myoblast cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse/Rat XIAP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8221) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for XIAP at approximately 56 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 4](#).

Immunohistochemistry



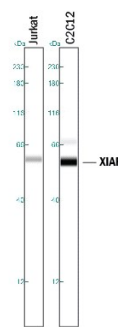
XIAP in Human Lymphoma.
XIAP was detected in immersion fixed paraffin-embedded sections of human lymphoma using 5 µg/mL Goat Anti-Human/Mouse/Rat XIAP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8221) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Immunohistochemistry



XIAP in Human Breast Cancer Tissue.
XIAP was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using 15 µg/mL Goat Anti-Human/Mouse/Rat XIAP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8221) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

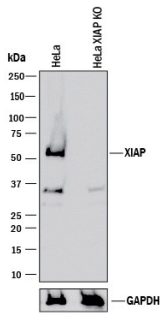
Simple Western



Detection of Human and Mouse XIAP by Simple Western™. Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line and C2C12 mouse myoblast cell line, loaded at 0.2 mg/mL. A specific band was detected for XIAP at approximately 59 kDa (as indicated) using 5 µg/mL of Goat Anti-Human/Mouse/Rat XIAP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8221) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



Knockout Validated



Western Blot Shows Human XIAP Specificity by Using Knockout Cell Line. Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and XIAP knockout HeLa cell line (KO). PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse/Rat XIAP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8221) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for XIAP at approximately 52 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # AF5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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

XIAP (X-chromosome linked inhibitor of apoptosis) is a member of the apoptosis (IAP) family of proteins that inhibit caspases. The BIR2 domain of XIAP inhibits caspase-3 and caspase-7. The ability of XIAP to inhibit caspases is prevented by SMAC/Diablo through binding to XIAP-BIR2 and -BIR3 domains.