

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human XIAP in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) cIAP-1 or rh cIAP-2 is observed. Neutralizes human XIAP and human XIAP-BIR2 bioactivity. Does not neutralize XIAP-BIR3 or Livin bioactivity.
Source	Monoclonal Mouse IgG ₁ Clone # 117318
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human XIAP Met1-Ser497 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.

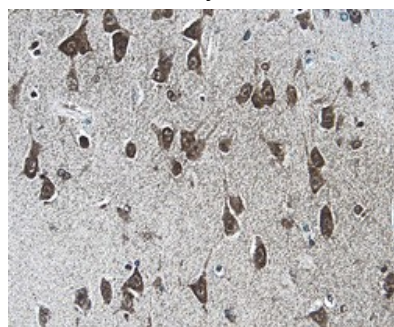
APPLICATIONS

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
Immunohistochemistry	8-25 µg/mL	See Below
Neutralization	Measured by its ability to neutralize Recombinant Human XIAP (2.75 µg/mL, Catalog # 822-XF) inhibition of Recombinant Human Caspase-7 (0.012 µg/mL, Catalog # 823-C7) cleavage of the fluorogenic peptide substrate DEVD-AFC (50 µM). The Neutralization Dose (ND ₅₀) is typically 10 µg/mL.	

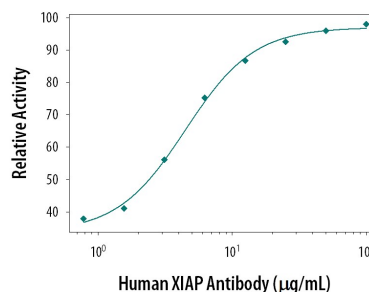
DATA

Immunohistochemistry



XIAP in Human Brain.
XIAP was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using 25 µg/mL Mouse Anti-Human XIAP Monoclonal Antibody (Catalog # MAB8221) overnight at 4 °C. Tissue was stained with the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counter-stained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

Neutralization



Neutralization of XIAP Activity by Human XIAP Antibody.
Recombinant Human Caspase-7 (0.012 µg/mL, Catalog # [823-C7](#)) activity is measured in the presence of Recombinant Human XIAP (2.75 µg/mL, Catalog # [822-XF](#)) that has been preincubated with increasing concentrations of Mouse Anti-Human XIAP Antibody (Catalog # MAB8221). The ND₅₀ is typically 10 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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"> 6 months from date of receipt, -20 to -70 °C as supplied. 3 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.