Human cIAP-2/HIAP-1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF8171

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human cIAP-2/HIAP-1 in Western blots. In Western blots, less than 1% cross-reactivity with cIAP-1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human cIAP-2/HIAP-1 Asn2-Ser604 Accession # U45878
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.

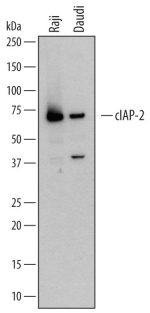
APPLICATIONS

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

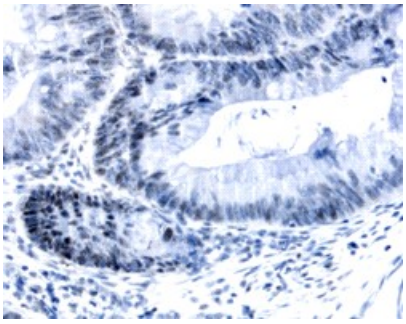
DATA

Western Blot



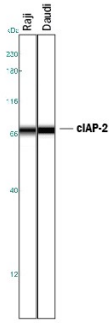
Detection of Human cIAP-2/HIAP-1 by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line and Daudi human Burkitt's lymphoma cell line. PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human cIAP-2/HIAP-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8171) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for cIAP-2/HIAP-1 at approximately 68 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 5.

Immunohistochemistry



cIAP-2/HIAP-1 in Human Colon. cIAP-2/HIAP-1 was detected in immersion fixed paraffin-embedded sections of human colon using 15 µg/mL Goat Anti-Human cIAP-2/HIAP-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8171) 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). Specific labeling was localized to the nucleus in epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Simple Western



Detection of Human cIAP-2/HIAP-1 by Simple Western™. Simple Western lane view shows lysates of Raji human Burkitt's lymphoma cell line and Daudi human Burkitt's lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for cIAP-2/HIAP-1 at approximately 70 kDa (as indicated) using 5 µg/mL of Goat Anti-Human cIAP-2/HIAP-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8171) 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.

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.** ● 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.

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BACKGROUND

cIAP-2 (also known as MIHC and HIAP-1) is a member of the inhibitor of apoptosis (IAP) family of proteins that inhibit the proteolytic activity of mature caspases. cIAP-2 has 3 BIR (baculovirus inhibitor of apoptosis) domains, a RING finger domain, and a caspase recruitment domain (CARD). cIAP-2 inhibits caspases through the direct interaction of its BIR domain with the active caspase. Caspase activity may be restored through interactions with the Reaper like motif on mitochondrial proteins such as SMAC/Diablo or HtrA2/Omi. cIAP-2 is reported to be cleaved by HtrA2/Omi.

References:

1. Roy, N. *et al.* (1997) EMBO J. **23**:6914.
2. Deveraux, Q. *et al.* (1997) Nature **388**:300.
3. Deveraux, Q. and J. Reed (1999) Genes & Develop. **13**:239.
4. Srinivasula, S.M. *et al.* (2003) J. Biol. Chem. **278**:31469.
5. Yang, Q-H. *et al.* (2003) Genes Dev. **17**:1487.

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