Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF8181

**DESCRIPTION**
Species Reactivity: Human
Specificity: Detects human cIAP-1/HIAP-2. Does not cross-react with recombinant human cIAP-2 or XIAP.
Source: Polyclonal Goat IgG
Purification: Antigen Affinity-purified
Immunogen: E. coli-derived recombinant human cIAP-1/HIAP-2 His2-Ser618
Accession # Q13490
Formulation: Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

**APPLICATIONS**
Knockout Validated: cIAP-1/HIAP-2 is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in cIAP-1/HIAP-2 knockout HeLa cell line.

**DATA**

**Western Blot**
Detection of Human cIAP-1/HIAP-2 by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line transfected with human cIAP-1 (lane 1), human cIAP-2 (lane 2), or non-transfected (lane 3).

**Simple Western**

**Immunohistochemistry**
cIAP-1/HIAP-2 in Human Lymphoma. cIAP-1/HIAP-2 was detected in immersion fixed paraffin-embedded sections of human lymphoma using Goat Anti-Human cIAP-1/HIAP-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8181) at 15 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).

**Simple Western**

**Immunohistochemistry**
cIAP-1/HIAP-2 in Human Lymphoma. cIAP-1/HIAP-2 was detected in immersion fixed paraffin-embedded sections of human lymphoma using Goat Anti-Human cIAP-1/HIAP-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8181) at 15 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).

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**

<table>
<thead>
<tr>
<th>Western Blot</th>
<th>0.5 µg/mL</th>
<th>See Below</th>
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<tbody>
<tr>
<td>Immunohistochemistry</td>
<td>5-15 µg/mL</td>
<td>See Below</td>
</tr>
<tr>
<td>Simple Western</td>
<td>5 µg/mL</td>
<td>See Below</td>
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**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.
Knockout Validated Western Blot Shows Human cIAP-1/HIAP-2 Specificity by Using Knockout Cell Line. Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and cIAP-1/HIAP-2 knockout HeLa cell line (KO). PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human cIAP-1/HIAP-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8181) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for cIAP-1/HIAP-2 at approximately 68 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**
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.

**BACKGROUND**
cIAP-1 (also known as BIR2, MIHB and HIAP-2) is a member of the inhibitor of apoptosis (IAP) family of proteins that inhibit the proteolytic activity of mature caspases. cIAP-1 has 3 BIR (baculovirus inhibitor of apoptosis) domains, a RING finger domain, and a caspase recruitment domain (CARD). cIAP-1 inhibits caspases by interaction of the 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 HTRA-2/Omi. cIAP-1 is reported to be cleaved by caspases in fetal rat hepatocytes treated with TGF-β.

**References:**