

Human cIAP-1/HIAP-2 Antibody

Monoclonal Mouse IgG₁ Clone # 681732 Catalog Number: MAB818

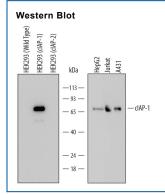
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human cIAP-1/HIAP-2 in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) cIAP-2 (aa 2-604) and no cross-reactivity with rhBIRC6 (aa 4582-4735), rhcIAP-2 (aa 94-178), rhXIAP (aa 1-497), rhXIAP (BIR2 domain; aa 124-242), or rhXIAP (BIR3 domain; aa 252-356) is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 681732
Purification	Protein A or G purified from hybridoma culture supernatant
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. *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.

See Below
See Below
is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not IAP-1/HIAP-2 knockout HeLa cell line.

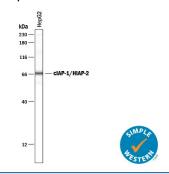
DATA



Detection of Human cIAP-1/HIAP-2 by Western

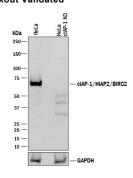
Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line either mock transfected, transfected with full length human cIAP-1, or transfected with full length human cIAP-2, HepG2 human hepatocellular carcinoma cell line, Jurkat human acute T cell leukemia cell line, and A431 human acute T cell leukemia cell line, PVDF Membrane was probed with 1 µg/mL of Human cIAP-1/HIAP-2 Monoclonal Antibody (Catalog # MAB818) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for cIAP-1/HIAP-2 at approximately 72 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Simple Western



Detection of Human cIAP-1/HIAP-2 by Simple WesternTM. Simple Western lane view shows lysates of HepG2 human hepatocellular carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for cIAP-1/HIAP-2 at approximately 66 kDa (as indicated) using 5 μg/mL of Mouse Anti-Human cIAP-1/HIAP-2 Monoclonal Antibody (Catalog # MAB818) . This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

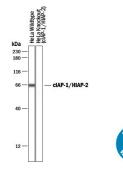
Knockout Validated



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 1 μ g/mL of Mouse Anti-Human clAP-1/HIAP-2 Monoclonal Antibody (Catalog # MAB818) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). 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 # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Knockout Validated



Specificity of Human cIAP-1/HIAP-2 by Simple Western¹M. Simple Western lane view shows lysates of HeLa human cervical epithelial carcinoma parental cell line and cIAP-1/HIAP-2 knockout HeLa cell line (KO), loaded at 0.2 mg/mL. A specific band was detected for cIAP-1/HIAP-2 at approximately 66 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout Helman cIAP-1/HIAP-2 Monoclonal Antibody (Catalog # MAB818) was used at 5 μg/mL. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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:

- 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. Herrera, B. et al. (2002) FEBS Letters 520:93.

