Human/Mouse cIAP Pan-specific Antibody

Monoclonal Mouse IgG_{2A} Clone # 315301

Catalog Number: MAB3400

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse cIAP-1 and cIAP-2 in Western blots.
Source	Monoclonal Mouse IgG_{2A} Clone # 315301
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human cIAP-2 Asn2-Ser604 Accession # Q13489
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.

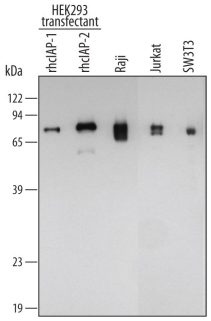
APPLICATIONS

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
Simple Western	10 µg/mL	See Below

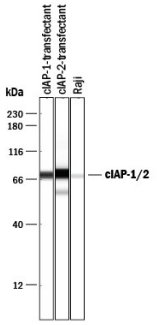
DATA

Western Blot



Detection of Human/Mouse cIAP by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line transfected with human cIAP-1 or human cIAP-2. PVDF membrane was probed with 0.5 µg/mL Mouse Anti-Human/Mouse cIAP Pan-specific Monoclonal Antibody (Catalog # MAB3400) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). For additional reference, lysates of Raji human Burkitt's lymphoma cell line, Jurkat human acute T cell leukemia cell line, and SW3T3 mouse contact inhibited fibroblast cell line were included. Specific bands for cIAP-1 and cIAP-2 were detected at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Simple Western



Detection of Human cIAP by Simple Western™. Simple Western lane view shows lysates of HEK293 human embryonic kidney cell line transfected with either cIAP-1 or cIAP-2 and Raji human Burkitt's lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for cIAP-1 and cIAP-2 at approximately 73 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human/Mouse cIAP Pan-specific Monoclonal Antibody (Catalog # MAB3400). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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.** ● 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

Cellular inhibitor of apoptosis protein1 (cIAP-1, also known as BIRC2, MIHB, and HIAP2) and 2 (cIAP-2, also known as BIRC3, MIHC, and HIAP1), are members of the inhibitor of apoptosis (IAP) family of proteins that inhibit the proteolytic activity of mature caspases. Structurally, cIAP-1 and cIAP-2 are each comprised of 3 BIR (baculovirus inhibitor of apoptosis) domains, a RING finger domain, and a caspase recruitment domain (CARD). Human cIAP-1 and cIAP-2 share 70% sequence identity. Functionally, cIAPs inhibits caspases through the direct interaction of its BIR domain with the active caspase. The ring finger domain of cIAP-1 and -2 also functions as an E3 ubiquitin ligase to ubiqutinylate specific target proteins. Caspase activity may be restored by mitochondrial proteins, such as SMAC/Diablo or HtrA2/Omi, through interactions with the Reaper-like motif and the BIR domain. cIAPs are reported to be cleaved by HtrA2/Omi.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449