Anti-cIAP1 Antibody [PSH02-10]

HA721769

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 70 kDa
Clone number:	PSH02-10

Description: Multi-functional protein which regulates not only caspases and apoptosis, but also modulates inflammatory signaling and immunity, mitogenic kinase signaling, and cell proliferation, as well as cell invasion and metastasis. Acts as an E3 ubiquitin-protein ligase regulating NF-kappa-B signaling and regulates both canonical and non-canonical NF-kappa-B signaling by acting in opposite directions: acts as a positive regulator of the canonical pathway and suppresses constitutive activation of non-canonical NF-kappa-B signaling. The target proteins for its E3 ubiquitin-protein ligase activity include: RIPK1, RIPK2, RIPK3, RIPK4, CASP3, CASP7, CASP8, TRAF2, DIABLO/SMAC, MAP3K14/NIK, MAP3K5/ASK1, IKBKG/NEMO, IKBKE and MXD1/MAD1. Can also function as an E3 ubiquitin-protein ligase of the NEDD8 conjugation pathway, targeting effector caspases for neddylation and inactivation. Acts as an important regulator of innate immune signaling via regulation of Toll-like receptors (TLRs), Nodlike receptors (NLRs) and RIG-I like receptors (RLRs), collectively referred to as pattern recognition receptors (PRRs). Protects cells from spontaneous formation of the ripoptosome, a large multi-protein complex that has the capability to kill cancer cells in a caspase-dependent and caspase-independent manner. Suppresses ripoptosome formation by ubiquitinating RIPK1 and CASP8. Can stimulate the transcriptional activity of E2F1. Plays a role in the modulation of the cell cycle.

Immunogen:	Recombinant protein within human cIAP1 aa 201-618 / 618.
Positive control:	HT-29 cell lysate, TF-1 cell lysate, HepG2 cell lysate, HeLa cell lysate, THP-1 cell lysate, Jurkat cell lysate, A549 cell lysate, HEK-293 cell lysate.
Subcellular location:	Cytoplasm, Nucleus.
Database links:	SwissProt: Q13490 Human
Recommended Dilutions:	
WB	1:2,000
Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.
Purity:	Protein A affinity purified.

Images

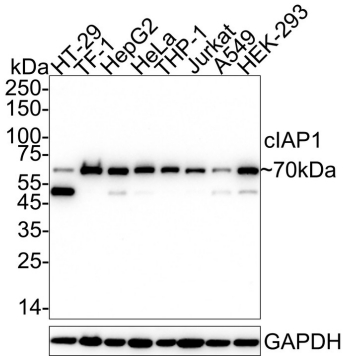

Fig1: Western blot analysis of cIAP1 on different lysates with Rabbit anti-cIAP1 antibody (HA721769) at 1/2,000 dilution.

Lane 1: HT-29 cell lysate
Lane 2: TF-1 cell lysate
Lane 3: HepG2 cell lysate
Lane 4: HeLa cell lysate
Lane 5: THP-1 cell lysate
Lane 6: Jurkat cell lysate
Lane 7: A549 cell lysate
Lane 8: HEK-293 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 70 kDa
Observed band size: 70 kDa

Exposure time: 2 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721769) at 1/2,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

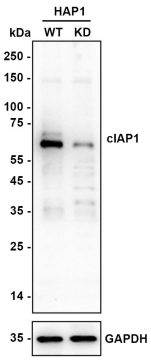

Fig2: Western blot analysis of cIAP1 on different lysates with Rabbit anti-cIAP1 antibody (HA721769) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate
Lane 2: HAP1-cIAP1 KD cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 70 kDa
Observed band size: 70 kDa

Exposure time: 78 seconds; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721769) at 1/2,000 dilution was used in K1803 at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Background References

1. Akizuki Y et al. cIAP1-based degraders induce degradation via branched ubiquitin architectures. Nat Chem Biol. 2023 Mar
2. Zadoroznyj A et al. Cytoplasmic and Nuclear Functions of cIAP1. Biomolecules. 2022 Feb