

## **cIAP1** Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP52022

## **Specification**

## **cIAP1** Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW
Antigen Region

WB
013490
Human, Mouse, Rat
Rabbit
Polyclonal
70 KDa
201 - 260

# **cIAP1** Antibody - Additional Information

#### Gene ID 329

#### **Other Names**

Baculoviral IAP repeat-containing protein 2, 632-, C-IAP1, IAP homolog B, Inhibitor of apoptosis protein 2, IAP-2, hIAP-2, hIAP-2, RING finger protein 48, TNFR2-TRAF-signaling complex protein 2, BIRC2, API1, IAP2, MIHB, RNF48

### Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human cIAP1. The exact sequence is proprietary.

## **Dilution**

WB~~ 1:1000

## **Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

## **Storage**

Store at -20 °C.Stable for 12 months from date of receipt

## **cIAP1** Antibody - Protein Information

## Name BIRC2

Synonyms API1, MIHB, RNF48

## **Function**

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.

#### **Cellular Location**

Cytoplasm. Nucleus. Note=Agents that induce either the extrinsic or intrinsic apoptotic pathways promote its redistribution from the nuclear compartment to the cytoplasmic compartment. Associated with the midbody in telophase cells, and found diffusely in the nucleus of interphase cells

#### **Tissue Location**

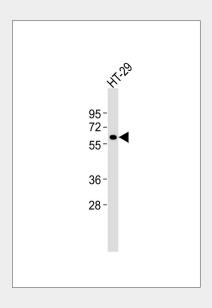
Present in many fetal and adult tissues. Mainly expressed in adult skeletal muscle, thymus, testis, ovary, and pancreas, low or absent in brain and peripheral blood leukocytes

# **cIAP1** Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

### cIAP1 Antibody - Images





Anti-cIAP1 Antibodyat 1:1000 dilution + HT-29 whole cell lysates Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 70 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## cIAP1 Antibody - Background

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# **cIAP1** Antibody - References

Rothe M.,et al.Cell 83:1243-1252(1995). Liston P.,et al.Nature 379:349-353(1996). Uren A.G.,et al.Proc. Natl. Acad. Sci. U.S.A. 93:4974-4978(1996). Ota T.,et al.Nat. Genet. 36:40-45(2004). Taylor T.D.,et al.Nature 440:497-500(2006).