

BIRC2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14418c**Specification**

BIRC2 Antibody (Center) - Product Information

Application	IHC-P, WB,E
Primary Accession	Q13490
Other Accession	Q62210 , NP_001157.1
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	69900
Antigen Region	216-244

BIRC2 Antibody (Center) - 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, hIAP2, RING finger protein 48, TNFR2-TRAF-signaling complex protein 2, BIRC2, API1, IAP2, MIHB, RNF48

Target/Specificity

This BIRC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 216-244 amino acids from the Central region of human BIRC2.

Dilution

IHC-P~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BIRC2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

BIRC2 Antibody (Center) - 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

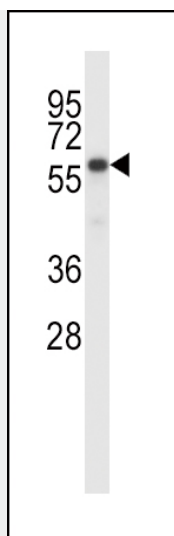
BIRC2 Antibody (Center) - Protocols

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

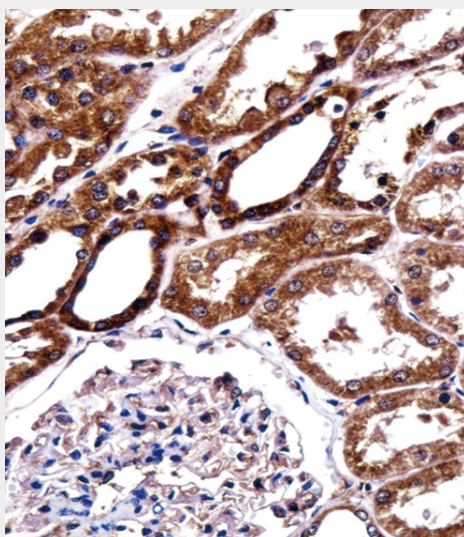
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BIRC2 Antibody (Center) - Images





BIRC2 Antibody (Center) (Cat. #AP14418c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the BIRC2 antibody detected the BIRC2 protein (arrow).



BIRC2 Antibody (Center) (AP14418c) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of BIRC2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

BIRC2 Antibody (Center) - Background

The protein encoded by this gene is a member of a family of proteins that inhibits apoptosis by binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2, probably by interfering with activation of ICE-like proteases. This encoded protein inhibits apoptosis induced by serum deprivation and menadione, a potent inducer of free radicals.

BIRC2 Antibody (Center) - References

Hinz, M., et al. Mol. Cell 40(1):63-74(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Meng, N., et al. J. Cell. Physiol. 225(1):174-179(2010)

Burke, S.P., et al. J. Biol. Chem. 285(39):30061-30068(2010)
Mace, P.D., et al. J. Mol. Biol. 400(1):8-15(2010)