

**BIRC3 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14020a****Specification**

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**BIRC3 Antibody (N-term) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">O13489</a>
Other Accession	<a href="#">NP_001156.1</a> , <a href="#">NP_892007.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	68372
Antigen Region	59-88

**BIRC3 Antibody (N-term) - Additional Information****Gene ID** 330**Other Names**

Baculoviral IAP repeat-containing protein 3, 632-, Apoptosis inhibitor 2, API2, C-IAP2, IAP homolog C, Inhibitor of apoptosis protein 1, IAP-1, hIAP-1, hIAP1, RING finger protein 49, TNFR2-TRAF-signaling complex protein 1, BIRC3, API2, IAP1, MIHC, RNF49

**Target/Specificity**

This BIRC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 59-88 amino acids from the N-terminal region of human BIRC3.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50

**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**

BIRC3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**BIRC3 Antibody (N-term) - Protein Information**

**Name** BIRC3

**Synonyms** API2, MIHC, RNF49

**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, IKKBE, TRAF1, and BCL10. 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.

**Cellular Location**

Cytoplasm. Nucleus

**Tissue Location**

Highly expressed in fetal lung, and kidney. In the adult, expression is mainly seen in lymphoid tissues, including spleen, thymus and peripheral blood lymphocytes

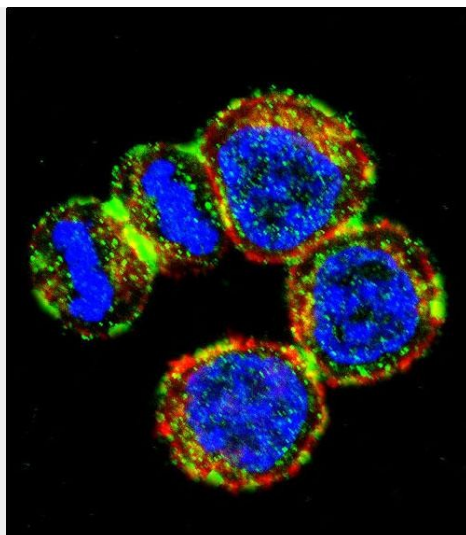
**BIRC3 Antibody (N-term) - Protocols**

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

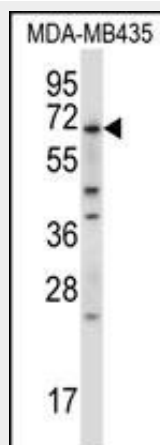
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**BIRC3 Antibody (N-term) - Images**

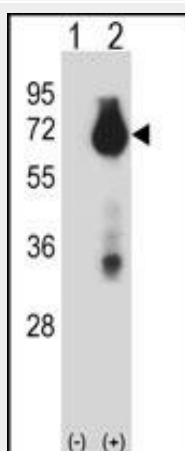




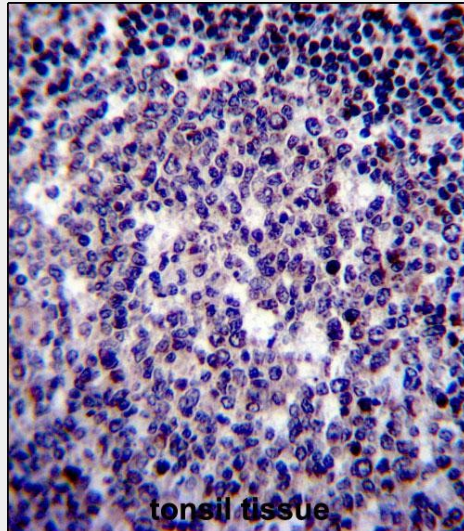
Confocal immunofluorescent analysis of BIRC3 Antibody (N-term)(Cat#AP14020a) with MDA-MB435 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



BIRC3 Antibody (N-term) (Cat. #AP14020a) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the BIRC3 antibody detected the BIRC3 protein (arrow).



Western blot analysis of BIRC3 (arrow) using rabbit polyclonal BIRC3 Antibody (N-term) (Cat. #AP14020a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the BIRC3 gene.



BIRC3 Antibody (N-term) (Cat. #AP14020a) immunohistochemistry analysis in formalin fixed and paraffin embedded human tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of BIRC3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **BIRC3 Antibody (N-term) - 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. The encoded protein inhibits apoptosis induced by serum deprivation but does not affect apoptosis resulting from exposure to menadione, a potent inducer of free radicals. The amino acid sequence predicts three baculovirus IAP repeat domains and a ring finger domain. Transcript variants encoding the same isoform have been identified. [provided by RefSeq].

#### **BIRC3 Antibody (N-term) - References**

Zane, L., et al. *Virology* 407(2):341-351(2010)  
Bailey, S.D., et al. *Diabetes Care* 33(10):2250-2253(2010)  
Kim, C.W., et al. *Biochem. Biophys. Res. Commun.* 400(1):46-52(2010)  
Petersen, S.L., et al. *Proc. Natl. Acad. Sci. U.S.A.* 107(26):11936-11941(2010)  
Friboulet, L., et al. *BMC Cancer* 10, 327 (2010) :