



## BIRC2 Antibody

E2200722

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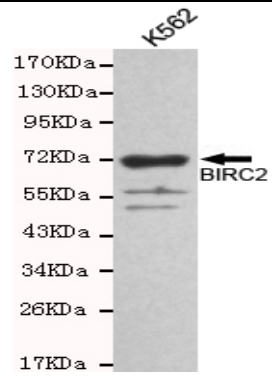
**Catalog Number:** E2200722  
**Size:** 100ug  
**Host:** Mouse  
**Formulation:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol  
**Sensitivity:** his antibody detects endogenous levels of BIRC2 and does not cross-react with related proteins.

**Entrez summary:** 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

**UniPort summary**  
**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 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:** Purified recombinant human BIRC2 protein fragments expressed in E.coli.  
**Antibody Type:** Monoclonal antibody  
**Isotype:** IgG2b  
**Purified method:** Affinity purified  
**Subcellular location:** Cytoplasm. Nucleus.  
**Reactivity:** H  
**Applications:** WB  
**Molecular Weight:** 70kDa  
**UniProt number:** Q13490  
**GeneBank ID:** NM\_001166.3  
**Gene symbol:** API1; MIHB; HIAP2; RNF48; cIAP1; Hiap-2; c-IAP1  
**Alternate names:** C-IAP1; IAP homolog B; Inhibitor of apoptosis protein 2, Short name=IAP-2, Short name=hiAP-2, Short name=hiAP2; RING finger protein 48; TNFR2-TRAF-signaling complex protein 2

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Western blot detection of BIRC2 in K562 cell lysates and using BIRC2 antibody (1:1000 diluted).  
Predicted band size: 70KDa Observed band size: 70KDa.