

BIRC7 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6128a**Specification**

BIRC7 Antibody (C-term) - Product Information

Application	IHC-P, WB,E
Primary Accession	Q96CA5
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	32798
Antigen Region	271-298

BIRC7 Antibody (C-term) - Additional Information**Gene ID** 79444**Other Names**

Baculoviral IAP repeat-containing protein 7, 632-, Kidney inhibitor of apoptosis protein, KIAP, Livin, Melanoma inhibitor of apoptosis protein, ML-IAP, RING finger protein 50, Baculoviral IAP repeat-containing protein 7 30kDa subunit, Truncated livin, p30-Livin, tLivin, BIRC7, KIAP, LIVIN, MLIAP, RNF50

Target/Specificity

This BIRC7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 271-298 amino acids from the C-terminal region of human BIRC7.

Dilution

IHC-P~~1:50~100

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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

BIRC7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

BIRC7 Antibody (C-term) - Protein Information

Name BIRC7**Synonyms** KIAP, LIVIN, MLIAP, RNF50

Function Apoptotic regulator capable of exerting proapoptotic and anti-apoptotic activities and plays crucial roles in apoptosis, cell proliferation, and cell cycle control (PubMed:[11024045](#), PubMed:[11084335](#), PubMed:[11162435](#), PubMed:[16729033](#), PubMed:[17294084](#)). Its anti-apoptotic activity is mediated through the inhibition of CASP3, CASP7 and CASP9, as well as by its E3 ubiquitin-protein ligase activity (PubMed:[11024045](#), PubMed:[16729033](#)). As it is a weak caspase inhibitor, its anti-apoptotic activity is thought to be due to its ability to ubiquitinate DIABLO/SMAC targeting it for degradation thereby promoting cell survival (PubMed:[16729033](#)). May contribute to caspase inhibition, by blocking the ability of DIABLO/SMAC to disrupt XIAP/BIRC4-caspase interactions (PubMed:[16729033](#)). Protects against apoptosis induced by TNF or by chemical agents such as adriamycin, etoposide or staurosporine (PubMed:[11084335](#), PubMed:[11162435](#), PubMed:[11865055](#)). Suppression of apoptosis is mediated by activation of MAPK8/JNK1, and possibly also of MAPK9/JNK2 (PubMed:[11865055](#)). This activation depends on TAB1 and MAP3K7/TAK1 (PubMed:[11865055](#)). In vitro, inhibits CASP3 and proteolytic activation of pro-CASP9 (PubMed:[11024045](#)).

Cellular Location

Nucleus. Cytoplasm. Golgi apparatus. Note=Nuclear, and in a filamentous pattern throughout the cytoplasm. Full-length livin is detected exclusively in the cytoplasm, whereas the truncated form (tLivin) is found in the peri-nuclear region with marked localization to the Golgi apparatus; the accumulation of tLivin in the nucleus shows positive correlation with the increase in apoptosis

Tissue Location

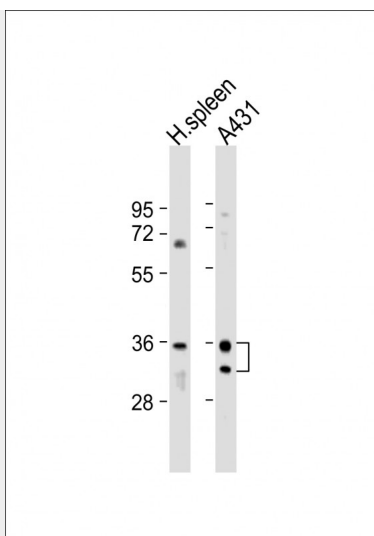
Isoform 1 and isoform 2 are expressed at very low levels or not detectable in most adult tissues. Detected in adult heart, placenta, lung, lymph node, spleen and ovary, and in several carcinoma cell lines. Isoform 2 is detected in fetal kidney, heart and spleen, and at lower levels in adult brain, skeletal muscle and peripheral blood leukocytes

BIRC7 Antibody (C-term) - Protocols

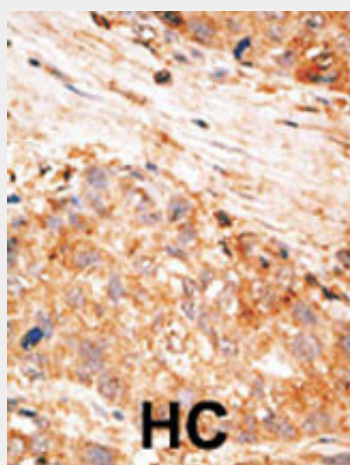
Provided below are standard protocols that you may find useful for product applications.

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

BIRC7 Antibody (C-term) - Images



All lanes : Anti-BIRC7 Antibody (C267) at 1:1000 dilution Lane 1: human spleen whole cell lysate Lane 2: A431 lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

BIRC7 Antibody (C-term) - Background

BIRC7 is a member of the family of inhibitor of apoptosis proteins (IAP) and contains a single copy of a baculovirus IAP repeat (BIR) as well as a RING-type zinc finger domain. The BIR domain is essential for inhibitory activity and interacts with caspases, while the RING finger domain sometimes enhances antiapoptotic activity but does not inhibit apoptosis alone. Two transcript variants encoding different isoforms have been found for this gene. The two isoforms have different antiapoptotic properties, with isoform alpha protecting cells from apoptosis induced by staurosporine and isoform b protecting cells from apoptosis induced by etoposide.

BIRC7 Antibody (C-term) - References

Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003).
Gazzaniga, P., et al., Ann. Oncol. 14(1):85-90 (2003).
Vucic, D., et al., J. Biol. Chem. 277(14):12275-12279 (2002).

Sanna, M.G., et al., Mol. Cell. Biol. 22(6):1754-1766 (2002).
Kasof, G.M., et al., J. Biol. Chem. 276(5):3238-3246 (2001).