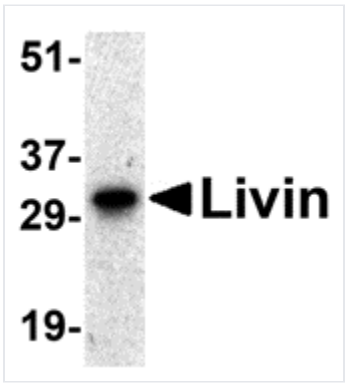
BIRC7 Antibody – Rabbit Polyclonal

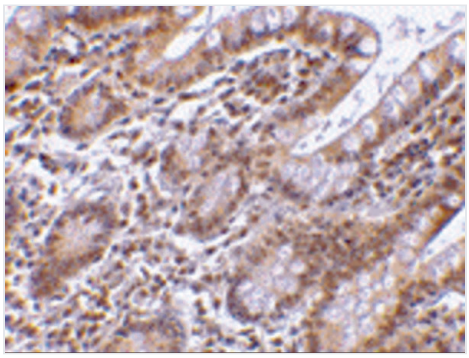
PRODUCT OVERVIEW

Product Name	Livin (BIRC7), Polyclonal Antibody
Full Product Name	Livin Antibody
Product Gene Name	anti-BIRC7 antibody
Product Synonym Names	Livin; KIAP; LIVIN; MLIAP; RNF50; ML-IAP; KIAP; UNQ5800/PRO19607/PRO21344; Baculoviral IAP repeat-containing protein 7; Kidney inhibitor of apoptosis protein; baculoviral IAP repeat-containing 7
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Livin Antibody is affinity chromatography purified via peptide column.
Specificity	A lower but much weaker band at 30 kDa was detected in Raji cell lysate, which may represent the short form of Livin.
Preparation and Storage	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Antibody/Peptide Pairs	Livin peptide (MBS152306) is used for blocking the activity of Livin antibody (MBS150232)
Molecular Weight	33 kDa
OMIM	605737
3D Structure	ModBase 3D Structure for Q96CA5
Conjugate	Unconjugated
Immunogen	Livin antibody was raised against a 17 amino acid peptide near the carboxy terminus of human Livin.
Buffer	Livin Antibody is supplied in PBS containing 0.02% sodium azide.
Applications Tested/Suitable for anti-BIRC7 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-BIRC7 antibody	Livin antibody can be used for detection of Livin by Western blot at 0.5 mug/mL. A band at 33 kDa can be detected. Antibody can also be used for immunohistochemistry starting at 5 mug/mL. For immunofluorescence start at 20 mug/mL.
Related Product Information for anti-BIRC7 antibody	Livin Antibody: Apoptosis, or programmed cell death, is related to many diseases, such as cancer. Apoptosis is triggered by a variety of stimuli including members in the TNF family and prevented by the inhibitor of apoptosis (IAP) proteins. IAP proteins form a conserved gene family that binds to and inhibits cell death proteases. A novel member in the IAP protein family was recently identified and designated Livin and KIAP for kidney IAP. Livin/XIAP contains a single baculoviral IAP repeat (BIR) domain and a RING finger domain and has two isoforms termed Livin-alpha and Livin-beta. Transfection of Livin in cells resulted in protection from apoptosis induced by FADD, BAX, RIP, RIP3 and DR6. Livin has direct interaction with several caspases including caspase-3, -7, and -9. Livin inhibits the activation of caspase-9 induced by Apaf-1, cytochrome c, and dATP. The two isoforms of Livin appear to have different functions and tissue distributions.
Other Notes	Small volumes of anti-BIRC7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

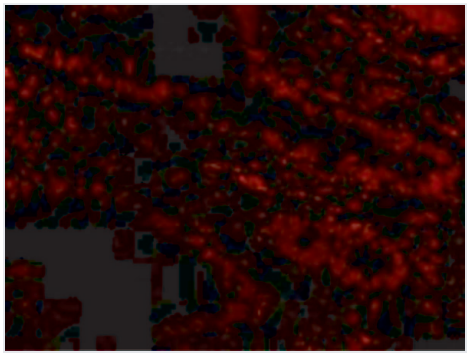
Searchable Terms for BIRC7 purchase	MBS150232 is an antibody targeting BIRC7. Also known as Livin Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-BIRC7 antibody
Western blot analysis of Livin expression in human Raji cell lysate with Livin antibody at 0.5 ?g/mL.



Immunohistochemistry (IHC) of anti-BIRC7 antibody
Immunohistochemistry of Livin in human small intestine tissue with Livin antibody at 5 ?g/mL.



Immunofluorescence (IF) of anti-BIRC7 antibody
Immunofluorescence of Livin in Human Small Intestine cells with Livin antibody at 20 ?g/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BIRC7. It may not necessarily be applicable to this product.

NCBI GI #	11545910
NCBI GeneID	79444
NCBI Accession #	NP_071444
UniProt Primary Accession #	Q96CA5
UniProt Secondary Accession #	Q9BQV0; Q9H2A8; Q9HAP7
UniProt Related Accession #	Q96CA5
GenBank Nucleotide #	NM_022161.3
NCBI Official Full Name	baculoviral IAP repeat-containing protein 7 isoform beta
NCBI Official Synonym Full Names	baculoviral IAP repeat containing 7
NCBI Official Symbol	BIRC7
NCBI Official Synonym Symbols	KIAP; LIVIN; MLIAP; RNF50; ML-IAP
UniProt Protein Name	Baculoviral IAP repeat-containing protein 7
UniProt Synonym Protein Names	Kidney inhibitor of apoptosis protein; KIAP; Livin; Melanoma inhibitor of apoptosis protein; ML-IAP; RING finger protein 50Baculoviral IAP repeat-containing protein 7 30kDa subunit; Truncated livin; p30-Livin; tLivin
Protein Family	Baculoviral IAP repeat-containing protein

UniProt Gene Name	BIRC7
UniProt Synonym Gene Names	KIAP; LIVIN; MLIAP; RNF50; KIAP; ML-IAP; Truncated livin; p30-Livin; tLivin
UniProt Entry Name	BIRC7_HUMAN
NCBI Protein Information	baculoviral IAP repeat-containing protein 7; RING finger protein 50; livin inhibitor of apoptosis; kidney inhibitor of apoptosis protein; melanoma inhibitor of apoptosis protein
NCBI Summary for BIRC7	This gene encodes a member of the inhibitor of apoptosis protein (IAP) family, 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. Elevated levels of the encoded protein may be associated with cancer progression and play a role in chemotherapy sensitivity. Alternative splicing results in multiple transcript variants [provided by RefSeq, Jul 2013]
UniProt Comments for BIRC7	BIRC7: Apoptotic regulator capable of exerting proapoptotic and anti-apoptotic activities and plays crucial roles in apoptosis, cell proliferation, and cell cycle control. Its anti-apoptotic activity is mediated through the inhibition of CASP3, CASP7 and CASP9, as well as by its E3 ubiquitin-protein ligase activity. 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. May contribute to caspase inhibition, by blocking the ability of DIABLO/SMAC to disrupt XIAP/BIRC4-caspase interactions. Protects against apoptosis induced by TNF or by chemical agents such as adriamycin, etoposide or staurosporine. Suppression of apoptosis is mediated by activation of MAPK8/JNK1, and possibly also of MAPK9/JNK2. This activation depends on TAB1 and NR2C2/TAK1. In vitro, inhibits CASP3 and proteolytic activation of pro-CASP9. Isoform 1 blocks staurosporine-induced apoptosis. Isoform 2 blocks etoposide-induced apoptosis. Isoform 2 protects against natural killer (NK) cell killing whereas isoform 1 augments killing. Binds to CASP9. Interaction with DIABLO/SMAC via the BIR domain disrupts binding to CASP9 and apoptotic suppressor activity. Interacts with TAB1. In vitro, interacts with CASP3 and CASP7 via its BIR domain. 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. Belongs to the IAP family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin ligase; EC 6.3.2.-; Ubiquitin conjugating system; Ligase; Apoptosis Chromosomal Location of Human Ortholog: 20q13.3 Cellular Component: Golgi apparatus; spindle microtubule; cytoplasm; nucleus Molecular Function: protein binding; enzyme binding; zinc ion binding; caspase inhibitor activity; ubiquitin-protein ligase activity; cysteine protease inhibitor activity; ligase activity Biological Process: protein ubiquitination; regulation of signal transduction; activation of JNK activity; negative regulation of apoptosis; regulation of cell proliferation
Research Articles on BIRC7	**1.** In diagnostically difficult cases of diffuse large B-cell lymphoma and Hodgkin lymphoma, focus on livin as marker may provide useful corroborative information.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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