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BIRC7 / Livin Antibody (aa264-280)

Rabbit Polyclonal Antibody
Catalog # ALS11388

Specification

BIRC7 / Livin Antibody (aa264-280) - Product Information

Application	**IF, WB, IHC**
Primary Accession	Q96CA5
Reactivity	**Human, Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**33kDa KDa**

BIRC7 / Livin Antibody (aa264-280) - Additional Information

Gene ID 79444

Other Names
Baculoviral IAP repeat-containing protein 7, 6.3.2.-, 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
Synthetic peptide (CRAPVRSRVRTFLS) corresponding to amino acids 264 to 280 of the short form and 281 to 298 of the long form of human Livin (1,3) This sequence is identical between a and b forms of the Livin proteins.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
BIRC7 / Livin Antibody (aa264-280) is for research use only and not for use in diagnostic or therapeutic procedures.

BIRC7 / Livin Antibody (aa264-280) - 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:11162435, PubMed:11024045, PubMed:11084335, PubMed:16729033, PubMed:<a

href="http://www.uniprot.org/citations/17294084" target="_blank">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:11162435, PubMed:11084335, 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

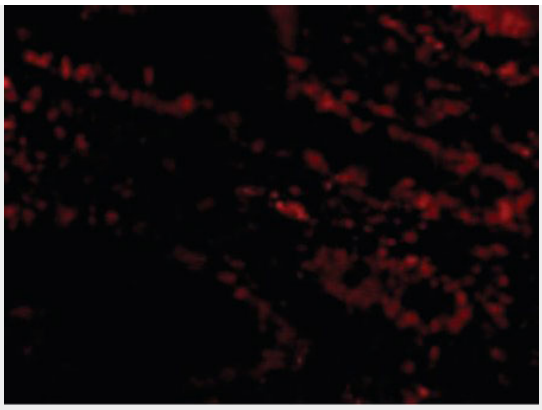
BIRC7 / Livin Antibody (aa264-280) - Protocols

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

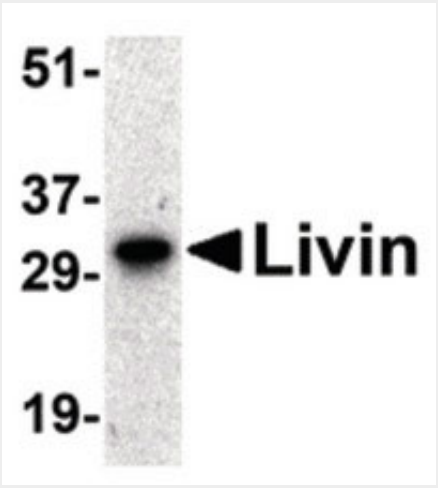
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BIRC7 / Livin Antibody (aa264-280) - Images

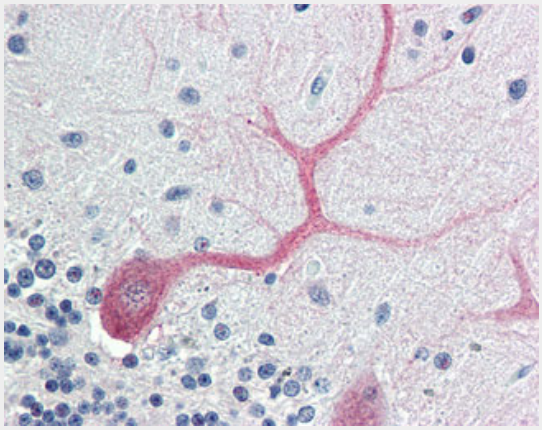
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Immunofluorescence of Livin in Human Small Intestine cells with Livin antibody at 20 ug/ml.



Western blot of Livin expression in human Raji cell lysate with Livin antibody at 0.5 ug/ml.



Anti-BIRC7 / Livin antibody IHC of human brain, cerebellum.

BIRC7 / Livin Antibody (aa264-280) - Background

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.

BIRC7 / Livin Antibody (aa264-280) - References

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Kasof G.M.,et al.J. Biol. Chem. 276:3238-3246(2001).
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Deloukas P.,et al.Nature 414:865-871(2001).