ARG54438
anti-BIRC7 / LIVIN antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes BIRC7 / LIVIN
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Specificity	This antibody recognizes human Livin (33kDa).
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BIRC7 / LIVIN
Species	Human
Immunogen	Peptide corresponding to aa 264-280 of the short form and aa 281-298 of the long form of human Livin (accession no. NP_071444).
Conjugation	Un-conjugated
Alternate Names	p30-Livin; ML-IAP; Baculoviral IAP repeat-containing protein 7; EC 6.3.2.-; RNF50; Melanoma inhibitor of apoptosis protein; Livin; tLivin; Kidney inhibitor of apoptosis protein; Truncated livin; RING finger protein 50; KIAP; MLIAP; LIVIN

Application Instructions

Application table

Application	Dilution
IHC-P	Assay-dependent
WB	Assay-dependent

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Raji and Human small intestine

Properties

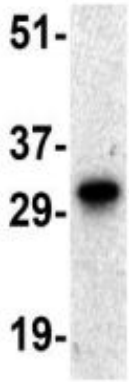
Form	Liquid
Purification	Immunoaffinity chroma-tography
Buffer	PBS (pH 7.4) and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

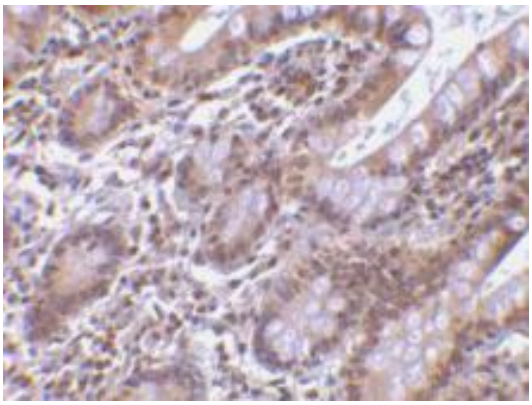
Database links	GeneID: 79444 Human Swiss-port # Q96CA5 Human
Gene Symbol	BIRC7
Gene Full Name	baculoviral IAP repeat containing 7
Background	Apoptosis is prevented by the inhibitor of apoptosis (IAP) proteins. A novel member in the IAP protein family has been identified and designated Livin and KIAP for kidney IAP. Livin/KIAP contains a single baculoviral IAP repeat (BIR) domain and a RING finger domain and has two isoforms termed Livin-a and Livin-b. Transfection of Livin in cells results 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.
Function	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. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody
Calculated Mw	33 kDa
PTM	Autoubiquitinated and undergoes proteasome-mediated degradation. The truncated protein (tLivin) not only loses its anti-apoptotic effect but also acquires a pro-apoptotic effect.

Images



ARG54438 anti-BIRC7 / LIVIN antibody WB image

Western blot: Raji stained with ARG54438 anti-BIRC7 / LIVIN antibody at 0.5 µg/ml dilution.



ARG54438 anti-BIRC7 / LIVIN antibody IHC image

Immunohistochemistry: Human small intestine stained with ARG54438 anti-BIRC7 / LIVIN antibody at 5 µg/ml dilution.