ARG55407
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	ICC/IF, IHC-P, WB
Specificity	A lower but much weaker band at 30 kDa was detected in Raji cell lysate, which may represent the short form of Livin.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BIRC7 / LIVIN
Species	Human
Immunogen	Synthetic peptide (17 aa) within the last 50 aa of Human LIVIN.
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
ICC/IF	20 µg/ml
IHC-P	5 µg/ml
WB	0.5 µg/ml

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

Properties

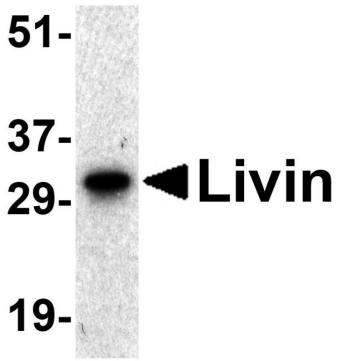
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free 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

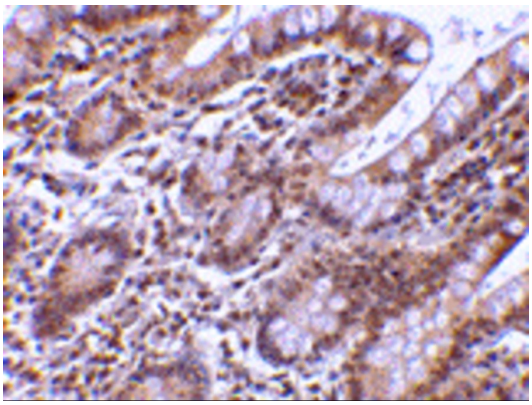
Database links	GeneID: 79444 Human Swiss-port # Q96CA5 Human
Gene Symbol	BIRC7
Gene Full Name	baculoviral IAP repeat containing 7
Background	This gene encodes a member of the inhibitor of apoptosis protein (IAP) family, and contains a single copy of a baculovirus IAP repeat (BIR) as well as a RING-type 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]
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



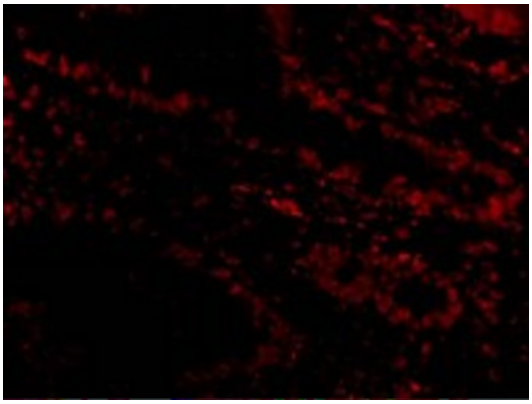
ARG55407 anti-BIRC7 / LIVIN antibody WB image

Western blot: Human Raji cell lysate stained with ARG55407 anti-BIRC7 / LIVIN antibody at 0.5 µg/ml dilution.



ARG55407 anti-BIRC7 / LIVIN antibody IHC image

Immunohistochemistry: Human small intestine tissue stained with ARG55407 anti-BIRC7 / LIVIN antibody at 5 µg/ml dilution.



ARG55407 anti-BIRC7 / LIVIN antibody ICC/IF image

Immunofluorescence: Human Small Intestine cells stained with ARG55407 anti-BIRC7 / LIVIN antibody at 20 µg/ml dilution.