ARG81559
Human BIRC7 / LIVIN ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81559-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81559-002	Standard	2 X 50 ng/vial	4°C
ARG81559-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81559-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81559-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81559-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81559-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81559-008	25X Wash buffer	20 ml	4°C
ARG81559-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81559-010	STOP solution	10 ml (Ready to use)	4°C
ARG81559-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81559 Human Livin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Livin in serum and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	BIRC7 / LIVIN
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.39 ng/ml
Sample Type	Serum and cell culture supernatants.
Standard Range	0.78 - 50 ng/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.6% Inter-Assay CV: 6.4%
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

Assay Time	~ 5 hours

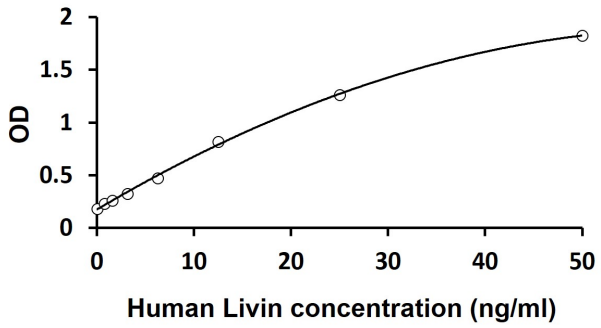
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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]
Highlight	Related products: BIRC7 antibodies; BIRC7 ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
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. [UniProt]
Cellular Localization	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. [UniProt]

Images



ARG81559 Human Livin ELISA Kit standard curve image

ARG81559 Human Livin ELISA Kit results of a typical standard run with optical density reading at 450 nm.