

Recombinant Human E3 ubiquitin-protein ligase XIAP(XIAP)

Catalog No: #AP70921

Package Size: #AP70921-1 20ug #AP70921-2 100ug #AP70921-3 1mg

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Description

Product Name	Recombinant Human E3 ubiquitin-protein ligase XIAP(XIAP)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-497aaSequence Info:Full Length
Other Names	Baculoviral IAP repeat-containing protein 4IAP-like protein ;ILP ;hILPInhibitor of apoptosis protein 3 ;IAP-3 ;hIAP-3 ;hIAP3X-linked inhibitor of apoptosis protein ;X-linked IAP
Accession No.	P98170
Calculated MW	72.7 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MTFNSFEGSKTCVPADINKEEEFVEEFNRLKTFANFSPGSPVSASTLARAGFLYTGEDTVRCFSCHAAVDR WQYGDSAVGRHRKRVSPNCRFINGFYLENSATQSTNSGIQNGQYKVENYLGSRDHFALDRPSETHADYLLRTG QVVDISDTIYPRNPAMYSEEARKLSFQNWPDYAHLTRELASAGLYYTIGIGDQVQCFCCGGKLNWEPCDRA WSEHRRHFPNCFVLGRNLNIRSEDAVSSDRNFPNSTNLPRNPSMADYEARIFTFGTWIYSVNKEQLARAGF YALGEGDKVKCFHCGGGLTDWKPSDPWEQHAKWYPGCKYLLEQKGQEYINNIHLTHSLEECLVRTTEKTPS LTRRIDDTIFQNPMVQEAIRMGFSFKDIKKIMEEKIQISGSNYKSLEVLVADLVNAQKDSMQDESSQTSLQKEIS TEEQLRRLQEEKLCKICMDRNIIVFVPCGHLVTCKQCAEAVDKCPMCYTVITFKQKIFMS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Multi-functional protein which regulates not only caspases and apoptosis, but also modulates inflammatory signaling and immunity, copper homeostasis, mitogenic kinase signaling, cell proliferation, as well as cell invasion and metastasis. Acts as a direct caspase inhibitor. Directly bind to the active site pocket of CASP3 and CASP7 and obstructs substrate entry. Inactivates CASP9 by keeping it in a monomeric, inactive state. Acts as an E3 ubiquitin-protein ligase regulating NF-kappa-B signaling and the target proteins for its E3 ubiquitin-protein ligase activity include: RIPK1, CASP3, CASP7, CASP8, CASP9, MAP3K2,MEKK2, DIABLO,SMAC, AIFM1, CCS and BIRC5,survivin. Ubiquitination of CCS leads to enhancement of its chaperone activity toward its physiologic target, SOD1, rather than proteasomal degradation. Ubiquitination of MAP3K2,MEKK2 and AIFM1 does not lead to proteasomal degradation. Plays a role in copper homeostasis by ubiquitinating COMMD1 and promoting its proteasomal degradation. Can also function as E3 ubiquitin-protein ligase of the NEDD8 conjugation pathway, targeting effector caspases for neddylation and inactivation. Regulates the BMP signaling pathway and the SMAD and MAP3K7,TAK1 dependent pathways leading to NF-kappa-B and JNK activation. Acts as an important regulator of innate immune signaling via regulation of Nodlike receptors (NLRs). Protects cells from spontaneous formation of the ripoptosome, a large multi-protein complex that has the capability to kill cancer cells in a caspase-dependent and caspase-independent manner. Suppresses ripoptosome formation by ubiquitinating RIPK1 and CASP8. Acts as a positive regulator of Wnt signaling and ubiquitinates TLE1, TLE2, TLE3, TLE4 and AES. Ubiquitination of TLE3 results in inhibition of its interaction with TCF7L2,TCF4 thereby allowing efficient recruitment and binding of the transcriptional

coactivator beta-catenin to TCF7L2,TCF4 that is required to initiate a Wnt-specific transcriptional program.

References

A conserved family of cellular genes related to the baculovirus iap gene and encoding apoptosis inhibitors.Duckett C.S., Nava V.E., Gedrich R.W., Clem R.J., van Dongen J.L., Gilfillan M.C., Shiels H., Hardwick J.M., Thompson C.B.EMBO J. 15:2685-2694(1996)Research Topic:Cancer

Note: This product is for in vitro research use only and is not intended for use in humans or animals.