

Datasheet for ABIN7317660 **BIRC2 Protein (AVI tag)**



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Overview

Quantity:	100 µg
Target:	BIRC2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BIRC2 protein is labelled with AVI tag.

Product Details

Purpose:	Recombinant Human cIAP1/HiAP2 Protein (AVI Tag)(Active)
Sequence:	Glu 144-Leu 356
Characteristics:	A DNA sequence encoding the BIR2 & BIR3 domains (Glu 144-Leu 356) of human cIAP1 (NP_001157.1) was expressed, fused with the AVI tag at the C-terminus, and two additional amino acids (Gly & Pro) at the N-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Measured by its ability to inhibit DEVD-AFC cleavage activity in cell extracts activated by addition of cytochrome c and dATP. The IC50 for this effect is typically 25-750 nM.

Target Details

Target:	BIRC2
Alternative Name:	cIAP1/HiAP2 (BIRC2 Products)

Target Details

Background:	<p>Background: The cellular inhibitor of apoptosis protein-1 (cIAP1) is a member of the Inhibitor of Apoptosis family proteins (IAP) whose members are characterized by a novel domain of about 70 amino acids termed baculoviral IAP repeats (BIRs). The BIR domains of cIAP1 and cIAP2 bind to caspases, the key effector proteases of apoptosis. The IAP protein family which can enhance cell survival are crucial regulators of programmed cell death. Both cIAP1 and cIAP2 are the E3 ubiquitin protein isopeptide ligases for Smac, taking part in promoting cancer survival through functioning as E3 ubiquitin ligases. Removal of cIAP1 by genetic deletion may result in NF-κB signaling activation that induces TNFα production and in killing sensitive tumor cells through enhanced TNF-R1 death-receptor signaling and caspase 8 activation. The substrate-dependent E3 activity of cIAPs is mediated by their RING domains and is dependent on the specific interactions between cIAPs and Smac. cIAP1 and cIAP2 are also reported to be regulators of NF-κB activation upon TNF treatment.</p> <p>Synonym: API1;c-IAP1;cIAP1;Hiap-2;HIAP2;MIHB;RNF48</p>
Molecular Weight:	26.5 kDa
NCBI Accession:	NP_001157
Pathways:	Apoptosis , Caspase Cascade in Apoptosis , Activation of Innate immune Response , Toll-Like Receptors Cascades

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 10 mM Tris, 5 % glycerol, 0.5 mM EDTA, 5 mM DTT, pH 7.5
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.