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XIAP Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02388

Basic Information

Catalog No.
RM02388

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
XIAP

Species
Human

Gene ID
331

Swiss Prot
P98170

Synonyms
API3; BIRC4; IAP-3; ILP1; MIHA; XLP2; hIAP-3; hIAP3

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Background

This gene encodes a protein that belongs to a family of apoptotic suppressor proteins. Members of this family share a conserved motif termed, baculovirus IAP repeat, which is necessary for their anti-apoptotic function. This protein functions through binding to tumor necrosis factor receptor-associated factors TRAF1 and TRAF2 and inhibits apoptosis induced by menadione, a potent inducer of free radicals, and interleukin 1-beta converting enzyme. This protein also inhibits at least two members of the caspase family of cell-death proteases, caspase-3 and caspase-7. Mutations in this gene are the cause of X-linked lymphoproliferative syndrome. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 2 and 11.[provided by RefSeq, Feb 2011]

Product Information

Description
XIAP Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:149bp deletion in exon1
Allele-2:149bp deletion in exon1
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

Sequencing data

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WT     AATAGTGCCACGCA**************ACCCGAGGAACCCT
Mut    AATAGTGCCACGCA***Deletion***ACCCGAGGAACCCT
Allele-1: 149bp deletion in exon1

WT     AATAGTGCCACGCA**************ACCCGAGGAACCCT
Mut    AATAGTGCCACGCA***Deletion***ACCCGAGGAACCCT
Allele-2: 149bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and XIAP knockout (KO) HeLa cells, using sanger sequencing.