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PYCARD Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02353

Basic Information

Catalog No.
RM02353

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
PYCARD

Species
Human

Gene ID
29108

Swiss Prot
Q9ULZ3

Synonyms
ASC; CARD5; TMS; TMS-1; TMS1

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Background

This gene encodes an adaptor protein that is composed of two protein-protein interaction domains: a N-terminal PYRIN-PAAD-DAPIN domain (PYD) and a C-terminal caspase-recruitment domain (CARD). The PYD and CARD domains are members of the six-helix bundle death domain-fold superfamily that mediates assembly of large signaling complexes in the inflammatory and apoptotic signaling pathways via the activation of caspase. In normal cells, this protein is localized to the cytoplasm; however, in cells undergoing apoptosis, it forms ball-like aggregates near the nuclear periphery. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product Information

Description
PYCARD Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:20bp deletion in exon1
Allele-2:110bp 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

WT CCGCTGCGCGAGGG**********GCGCGCTGCTGTCC
Mut CCGCTGCGCGAGGG***Deletion***GCGCGCTGCTGTCC
Allele-1: 20bp deletion in exon1

WT CCATGGGGCGCGCG**********GGGCGCGCTGCTGT
Mut CCATGGGGCGCGCG***Deletion***GGGCGCGCTGCTGT
Allele-2: 110bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and PYCARD knockout (KO) HeLa cells, using sanger sequencing.

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