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PIK3CA Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02557

Basic Information

Catalog No.
RM02557

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

Background

Phosphatidylinositol 3-kinase is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate PtdIns, PtdIns4P and PtdIns(4,5)P2. This gene has been found to be oncogenic and has been implicated in cervical cancers. A pseudogene of this gene has been defined on chromosome 22. [provided by RefSeq, Apr 2016]

Gene Information

Gene Symbol
PIK3CA

Species
Human

Gene ID
5290

Swiss Prot
P42336

Synonyms
CLOVE; CWS5; MCAP; MCM; MCMTC; PI3K; PI3K-alpha; p110-alpha

Product Information

Description
PIK3CA Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:181bp deletion in exon1
Allele-2:231bp 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
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

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.

Contact

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Sequencing data

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WT    GACTTTAGAATGCC**********CTTTTTAAAAGTAA
Mut   GACTTTAGAATGCC***Deletion***CTTTTTAAAAGTAA
AIIele-1:   181bp deletion in exon1

WT    TTAGAATGCCTCCG**********AGAAATTGGTATGA
Mut   TTAGAATGCCTCCG***Deletion***AGAAATTGGTATGA
AIIele-2:   231bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and PIK3CA Knockdown (KD) HeLa cells, using sanger sequencing.