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PTK2 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02076

Basic Information

Catalog No.
RM02076

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

Background

This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene, but the full-length natures of only four of them have been determined. [provided by RefSeq, Oct 2015]

Gene Information

Gene Symbol
PTK2

Species
Human

Gene ID
5747

Swiss Prot
Q05397

Synonyms
FADK; FAK; FAK1; FRNK; PPP1R71; p125FAK; pp125FAK

Product Information

Description
PTK2 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:81bp deletion in exon1
Allele-2:82bp 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.

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Sequencing data

WT AGACTCACCTGGGT**********ACCTGGGCCAGTAT
Mut AGACTCACCTGGGT***Deletion***ACCTGGGCCAGTAT
Allele-1: 81bp deletion in exon1

WT AAGACTCACCTGGG**********ACCTGGGCCAGTAT
Mut AAGACTCACCTGGG***Deletion***ACCTGGGCCAGTAT
Allele-2: 82bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and PTK2 Knockdown (KD) HeLa cells, using sanger sequencing.

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