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BMPR1B Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02309

Basic Information

Catalog No.
RM02309

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
BMPR1B

Species
Human

Gene ID
658

Swiss Prot
O00238

Synonyms
ALK-6; ALK6; AMDD; BDA1D; BDA2; CDw293

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Background

This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Product Information

Description
BMPR1B Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:31bp deletion in exon1
Allele-2:31bp 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 CCCCACCCCCCGTC**********TTGTCCAGAAGACT
Mut CCCCACCCCCCGTC***Deletion***TTGTCCAGAAGACT
Allele-1: 31bp deletion in exon1

WT CCCCACCCCCCGTC**********TTGTCCAGAAGACT
Mut CCCCACCCCCCGTC***Deletion***TTGTCCAGAAGACT
Allele-2: 31bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and BMPR1B Knockout (KO) 293T cells, using sanger sequencing.