

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

SynonymsALK-6; ALK6; AMDD; BDA1D; BDA2;
CDw293

Contact

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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°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. 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.

Sequencing data

WT CCCCACCCCGTC*****TTGTCAGAAGACT
Mut CCCCACCCCGTC***Deletion***TTGTCAGAAGACT
Allele-1: 31bp deletion in exon1

WT CCCCACCCCGTC*****TTGTCAGAAGACT
Mut CCCCACCCCGTC***Deletion***TTGTCAGAAGACT
Allele-2: 31bp deletion in exon1

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