

FGFR2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02400

Basic Information

Catalog No.

RM02400

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

FGFR2

Species

Human

Gene ID

2263

Swiss Prot

P21802

SynonymsBBDS; BEK; BFR-1; CD332; CEK3; CFD1;
ECT1; JWS; K-SAM; KGFR; TK14; TK25

Contact

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Background

The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jan 2009]

Product Information

Description

FGFR2 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1: exon8 was deleted

Allele-2: exon8 was deleted

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 CCCCATCACCAGAT*****AGCGGGGAGGCGGG
Mut CCCCATCACCAGAT***Deletion***AGCGGGGAGGCGGG
Allele-1: exon8 was deleted
WT CCCCATCACCAGAT*****AGCGGGGAGGCGGG
Mut CCCCATCACCAGAT***Deletion***AGCGGGGAGGCGGG
Allele-2: exon8 was deleted

Genome sequence analysis of PCR products from parental (WT) and FGFR2 knockout (KO) 293T cells, using sanger sequencing.