

GFRA1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02479

Basic Information

Catalog No.

RM02479

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

GFRA1

Species

Human

Gene ID

2674

Swiss Prot

P56159

SynonymsGDNFR; GDNFRA; GFR-ALPHA-1; RET1L;
RETL1; TRNR1

Contact

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Background

This gene encodes a member of the glial cell line-derived neurotrophic factor receptor (GDNFR) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature receptor. Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. This receptor is a glycosylphosphatidylinositol (GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. This gene is a candidate gene for Hirschsprung disease. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Product Information

Description

GFRA1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:79bp deletion in exon2

Allele-2:91bp deletion in exon2

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 CGGCCGAAGTGAGC*****TAAGGCAGTGCGTG
Mut CGGCCGAAGTGAGC***Deletion***TAAGGCAGTGCGTG
Allele-1: 79bp deletion in exon2

WT GACTTGCTCCTGTC*****CTAAGGCAGTGCGT
Mut GACTTGCTCCTGTC***Deletion***CTAAGGCAGTGCGT
Allele-2: 91bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and GFRA1 knockout (KO) 293T cells, using sanger sequencing.