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GFRA1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02479

Basic Information

Catalog No.
RM02479

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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]

Gene Information

Gene Symbol
GFRA1

Species
Human

Gene ID
2674

Swiss Prot
P56159

Synonyms
GDNFR; GDNFRA; GFR-ALPHA-1; RET1L; RETL1; TRNR1

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℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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.

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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.