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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

## Gene Information

**Gene Symbol**
GFRA1

**Species**
Human

**Gene ID**
2674

**Swiss Prot**
P56159

**Synonyms**
GDNFR; 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℃

**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 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.



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