

# EIF4G2 Knockdown A549 Cell Lysate, Heterozygous

**Catalog No.:** RM50037

## Basic Information

**Catalog No.**

RM50037

**Category**

Cell Lysate

**Parental Cell line**

A549

**Genotype**

Knockdown

## Gene Information

**Gene Symbol**

EIF4G2

**Species**

Human

**Gene ID**

1982

**Swiss Prot**

P78344

**Synonyms**

P97; AAG1; DAP5; NAT1; EIF4G2/p97

## Contact

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## Background

Translation initiation is mediated by specific recognition of the cap structure by eukaryotic translation initiation factor 4F (eIF4F), which is a cap binding protein complex that consists of three subunits: eIF4A, eIF4E and eIF4G. The protein encoded by this gene shares similarity with the C-terminal region of eIF4G that contains the binding sites for eIF4A and eIF3; eIF4G, in addition, contains a binding site for eIF4E at the N-terminus. Unlike eIF4G, which supports cap-dependent and independent translation, this gene product functions as a general repressor of translation by forming translationally inactive complexes. In vitro and in vivo studies indicate that translation of this mRNA initiates exclusively at a non-AUG (GUG) codon. Alternatively spliced transcript variants encoding different isoforms of this gene have been described.

## Product Information

**Description**

EIF4G2 Knockdown A549 cell line is engineered from A549 cell line with Gene-Editing Technology.

Allele-1: exon1 was deleted

Allele-2: WT

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

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WT CGTTGTCAAGCC \*\*\*\*\*AATGGGCTGCAATT  
Mut CGTTGTCAAGCC\*\*\*Deletion\*\*\*AATGGGCTGCAATT  
Allele-1: exon1 was deleted

WT TTCGTTGTCAAGCC\*\*\*\*\*AATGGGCTGCAATT  
Mut TTCGTTGTCAAGCC\*\*\*\*\*AATGGGCTGCAATT  
Allele-2: WT

Genome sequence analysis of PCR products from parental (WT) and EIF4G2 knockdown (KD) A549 cells, using sanger sequencing.