

# GATA3 Knockout 293T Cell Lysate, Homozygous

**Catalog No.:** RM02457

## Basic Information

**Catalog No.**

RM02457

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

GATA3

**Species**

Human

**Gene ID**


3635

**Swiss Prot**

Q92835

**Synonyms**SHIP; SHIP-1; SHIP1; SIP-145; hp51CN;  
p150Ship

## Contact

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## Background

This gene is a member of the inositol polyphosphate-5-phosphatase (INPP5) family and encodes a protein with an N-terminal SH2 domain, an inositol phosphatase domain, and two C-terminal protein interaction domains. Expression of this protein is restricted to hematopoietic cells where its movement from the cytosol to the plasma membrane is mediated by tyrosine phosphorylation. At the plasma membrane, the protein hydrolyzes the 5' phosphate from phosphatidylinositol (3,4,5)-trisphosphate and inositol-1,3,4,5-tetrakisphosphate, thereby affecting multiple signaling pathways. The protein is also partly localized to the nucleus, where it may be involved in nuclear inositol phosphate signaling processes. Overall, the protein functions as a negative regulator of myeloid cell proliferation and survival. Mutations in this gene are associated with defects and cancers of the immune system. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2014]

## Product Information

**Description**

GATA3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:73bp deletion in exon1

Allele-2:1bp insertion in exon1

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 CAGCCACTCCTACA\*\*\*\*\*CCCGCCCTACTACG  
Mut CAGCCACTCCTACA\*\*\*Deletion\*\*\*CCCGCCCTACTACG  
Allele-1: 73bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and GATA3 knockout (KO) 293T cells, using sanger sequencing.

WT GCCTCAGCCACTCCTACAT GGACGCGGCGCAGTACCCG  
Mut GCCTCAGCCACTCCTACATGGAGGACGGGAAAACCCG  
Allele-2: 1bp insertion in exon1