

# ACTA2 Knockout HeLa Cell Lysate, Homozygous

**Catalog No.:** RM01989

## Basic Information

**Catalog No.**

RM01989

**Category**

Cell Lysate

**Parental Cell line**

HeLa

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

ACTA2

**Species**

Human

**Gene ID**

59

**Swiss Prot**

P62736

**Synonyms**

AAT6; ACTSA; MYMY5

## Contact

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## Background

The protein encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Defects in this gene cause aortic aneurysm familial thoracic type 6. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2008]

## Product Information

**Description**

ACTA2 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:56bp deletion in exon2

Allele-2:56bp 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

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WT CAAAAGACAGCTA\*\*\*\*\*AACATGGCATCATC  
Mut CAAAAGACAGCTA\*\*\*Deletion\*\*\*AACATGGCATCATC  
Allele-1: 56bp deletion in exon2  
WT CAAAAGACAGCTA\*\*\*\*\*AACATGGCATCATC  
Mut CAAAAGACAGCTA\*\*\*Deletion\*\*\*AACATGGCATCATC  
Allele-2: 56bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and ACTA2 knockout (KO) HeLa cells, using sanger sequencing.