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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

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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℃

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.

Sequencing data

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WT    CAAAAAGACAGCTA**************AACATGGCATCATC
Mut   CAAAAAGACAGCTA***Deletion***AACATGGCATCATC
Allele-1：56bp deletion in exon2
WT    CAAAAAGACAGCTA**************AACATGGCATCATC
Mut   CAAAAAGACAGCTA***Deletion***AACATGGCATCATC
Allele-2：56bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and ACTA2 knockout (KO) HeLa cells, using sanger sequencing.