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ARG1 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02268

Basic Information

Catalog No.
RM02268

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
ARG1

Species
Human

Gene ID
383

Swiss Prot
P05089

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Background

Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

Product Information

Description
ARG1 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:67bp deletion in exon3
Allele-2:88bp deletion in exon3
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

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WT    TTAT*************CAAA*GAGC*************GCTG
Mut   TTAT***Deletion***CAAA*GAGC***Deletion***GCTG
Allele-1:    67bp deletion in exon3

WT    GTGATGTGAAGGAT*************AGCTGGCTGGCAAG
Mut   GTGATGTGAAGGAT***Deletion***AGCTGGCTGGCAAG
Allele-2:    88bp deletion in exon3
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Genome sequence analysis of PCR products from parental (WT) and ARG1 knockout (KO) HeLa cells, using sanger sequencing.

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