

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

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

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 arginemia, 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°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

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

Genome sequence analysis of PCR products from parental (WT) and ARG1 knockout (KO) HeLa cells, using sanger sequencing.