

CP Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50149

Basic Information

Catalog No.

RM50149

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

CP

Species

Human

Gene ID

1356

Swiss Prot

P00450

Synonyms

CP-2; AB073614; Ceruloplasmin

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Background

The protein encoded by this gene is a metalloprotein that binds most of the copper in plasma and is involved in the peroxidation of Fe(II)transferrin to Fe(III) transferrin. Mutations in this gene cause aceruloplasminemia, which results in iron accumulation and tissue damage, and is associated with diabetes and neurologic abnormalities. Two transcript variants, one protein-coding and the other not protein-coding, have been found for this gene.

Product Information

Description

CP Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:161bp deletion in exon2

Allele-2:161bp 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

WT CAAATGGCCAGAGGGCCCTACACCTTT
Mut CAAATGGCCAGAGGGCCCTACACCTTT
Allele-1: 161bp deletion in exon2

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

WT CAAATGGCCAGAGGGCCCTACACCTTT
Mut CAAATGGCCAGAGGGCCCTACACCTTT
Allele-2: 161bp deletion in exon2