

# 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

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## 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

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WT CAAAATGCCCCAGA\*\*\*\*\*GGCCCTACACCTTT  
Mut CAAAATGCCCCAGA\*\*\*Deletion\*\*\*GGCCCTACACCTTT  
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 CAAAATGCCCCAGA\*\*\*\*\*GGCCCTACACCTTT  
Mut CAAAATGCCCCAGA\*\*\*Deletion\*\*\*GGCCCTACACCTTT  
Allele-2: 161bp deletion in exon2