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CP Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50149

Basic Information

Catalog No.
RM50149

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

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.

Gene Information

Gene Symbol
CP

Species
Human

Gene ID
1356

Swiss Prot
P00450

Synonyms
CP-2; AB073614; Ceruloplasmin

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℃

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.

Contact

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Sequencing data

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WT    CAAAATGGCCCAGA**********GGCCCTACACCTTT
Mut   CAAAATGGCCCAGA***Deletion***GGCCCTACACCTTT
AIlele-1:   161bp deletion in exon2

WT    CAAAATGGCCCAGA**********GGCCCTACACCTTT
Mut   CAAAATGGCCCAGA***Deletion***GGCCCTACACCTTT
AIlele-2:   161bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and CP knockout (KO) HeLa cells, using sanger sequencing.