

CEA Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02555

Basic Information

Catalog No.

RM02555

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

CEA

Species

Human

Gene ID

1048

Swiss Prot

P06731

Synonyms

CD66e; CEA

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Background

This gene encodes a cell surface glycoprotein that represents the founding member of the carcinoembryonic antigen (CEA) family of proteins. The encoded protein is used as a clinical biomarker for gastrointestinal cancers and may promote tumor development through its role as a cell adhesion molecule. Additionally, the encoded protein may regulate differentiation, apoptosis, and cell polarity. This gene is present in a CEA family gene cluster on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]

Product Information

Description

CEA Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1: exon1 was deleted

Allele-2: WT

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 TTCCTGGAACAA*****CCTGGGAGAGGGTG
Mut TTCCTGGAACAA***Deletion***CCTGGGAGAGGGTG
Allele-1: exon1 was deleted

WT GCAGACAGCAGAGACCATGGAGTCTCCCTCGGCCCTCCC
Mut GCAGACAGCAGAGACCATGGAGTCTCCCTCGGCCCTCCC
Allele-2: WT

Genome sequence analysis of PCR products from parental (WT) and CEA Knockdown (KD) HeLa cells, using sanger sequencing.