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TUBB3 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM02073

Basic Information

Catalog No.
RM02073

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
TUBB3

Species
Human

Gene ID
10381

Swiss Prot
Q13509

Synonyms
CDCBM; CDCBM1; CFEOM3; CFEOM3A; FEOM3; TUBB4; beta-4

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Background

This gene encodes a class III member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Mutations in this gene are the cause of congenital fibrosis of the extraocular muscles type 3. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Oct 2010]

Product Information

Description
TUBB3 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:120bp deletion and 31bp insertion in exon2
Allele-2:117bp 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
Store at -20℃

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 CAAGGGTCACTACA**********TGGGCACGTTGCTC
Mut CAAGGGTCACTACA***Deletion***TGGGCACGTTGCTC
Allele-1: 120bp deletion and 31bp insertion in exon2

WT GGGTCACTACACGG**********TGGGCACGTTGCTC
Mut GGGTCACTACACGG***Deletion***TGGGCACGTTGCTC
Allele-2: 117bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and TUBB3 Knockdown (KD) HeLa cells, using sanger sequencing.

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