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CBX3 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02489

Basic Information

Catalog No.
RM02489

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

At the nuclear envelope, the nuclear lamina and heterochromatin are adjacent to the inner nuclear membrane. The protein encoded by this gene binds DNA and is a component of heterochromatin. This protein also can bind lamin B receptor, an integral membrane protein found in the inner nuclear membrane. The dual binding functions of the encoded protein may explain the association of heterochromatin with the inner nuclear membrane. This protein binds histone H3 tails methylated at Lys-9 sites. This protein is also recruited to sites of ultraviolet-induced DNA damage and double-strand breaks. Two transcript variants encoding the same protein but differing in the 5' UTR, have been found for this gene.[provided by RefSeq, Mar 2011]

Gene Information

Gene Symbol
CBX3

Species
Human

Gene ID
11335

Swiss Prot
Q13185

Synonyms
HECH; HP1-GAMMA; HP1Hs-gamma

Product Information

Description
CBX3 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:exon1 was deleted
Allele-2:exon1 was deleted
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.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Sequencing data

WT GTGCGCTCTCTACT**********ACAGGGGAAAATTA
Mut GTGCGCTCTCTACT***Deletion***ACAGGGGAAAATTA
Allele-1: exon1 was deleted

WT GTGCGCTCTCTACT**********ACAGGGGAAAATTA
Mut GTGCGCTCTCTACT***Deletion***ACAGGGGAAAATTA
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and CBX3 knockout (KO) 293T cells, using sanger sequencing.

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