Leader in Biomolecular Solutions for Life Science

www.abclonal.com

CBX3 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02451

Basic Information

Catalog No.
RM02451

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
CBX3

Species
Human

Gene ID
11335

Swiss Prot
Q13185

Synonyms
HECH; HP1-GAMMA; HP1Hs-gamma

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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]

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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

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.