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STAT5B Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02068

Basic Information

Catalog No.
RM02068

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Background

The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
STAT5B

Species
Human

Gene ID
6777

Swiss Prot
P51692

Synonyms
STAT5

Product Information

Description
STAT5B Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:exon2 was deleted
Allele-2:exon2 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     GAGGCTGTATTTAT**************GGGGGTCTTCTTCC
Mut    GAGGCTGTATTTAT***Deletion***GGGGGTCTTCTTCC
Allele-1：exon2 was deleted
WT     GAGGCTGTATTTAT**************GGGGGTCTTCTTCC
Mut    GAGGCTGTATTTAT***Deletion***GGGGGTCTTCTTCC
Allele-2：exon2 was deleted
```

Genome sequence analysis of PCR products from parental (WT) and STAT5B knockout (KO) HeLa cells, using sanger sequencing.

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