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PITX2 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50038

Basic Information

Catalog No.
RM50038

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
PITX2

Species
Human

Gene ID
5308

Swiss Prot
Q99697

Synonyms
RS; RGS; ARP1; Brx1; IDG2; IGDS; IHG2; PTX2; RIEG; ASGD4; IGDS2; IRID2; Otlx2; RIEG1; Pituitary homeobox 2 (PITX2)

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Background

This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. The encoded protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. This protein plays a role in the terminal differentiation of somatotroph and lactotroph cell phenotypes, is involved in the development of the eye, tooth and abdominal organs, and acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. Mutations in this gene are associated with Axenfeld-Rieger syndrome, iridogoniodysgenesis syndrome, and sporadic cases of Peters anomaly. A similar protein in other vertebrates is involved in the determination of left-right asymmetry during development. Alternatively spliced transcript variants encoding distinct isoforms have been described.

Product Information

Description
PITX2 Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:139bp deletion in exon2
Allele-2:154bp 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

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WT    TCTAAGAAGAAGCG*************ATCTCACGAGCTGG
Mut   TCTAAGAAGAAGCG***Deletion***ATCTCACGAGCTGG
Allele-1:    139bp deletion in exon2

WT    GGCGCCGAGGACCC*************AATGTGGAAGGCAG
Mut   GGCGCCGAGGACCC***Deletion***AATGTGGAAGGCAG
Allele-2:    154bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and PITX2 knockout (KO) HeLa cells, using sanger sequencing.

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