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NAPSA Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02465

Basic Information

Catalog No.
RM02465

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the peptidase A1 family of aspartic proteases. The encoded preproprotein is proteolytically processed to generate an activation peptide and the mature protease. The activation peptides of aspartic proteinases function as inhibitors of the protease active site. These peptide segments, or pro-parts, are deemed important for correct folding, targeting, and control of the activation of aspartic proteinase zymogens. The encoded protease may play a role in the proteolytic processing of pulmonary surfactant protein B in the lung and may function in protein catabolism in the renal proximal tubules. This gene has been described as a marker for lung adenocarcinoma and renal cell carcinoma. [provided by RefSeq, Feb 2016]

Gene Information

Gene Symbol
NAPSA

Species
Human

Gene ID
9476

Swiss Prot
O96009

Synonyms
KAP; Kdap; NAP1; NAPA; SNAPA

Product Information

Description
NAPSA Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:88bp deletion in exon2
Allele-2:88bp 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.

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Sequencing data

WT GAGTCCAACCTGGA**********TCGTACCTCTCTCG
Mut GAGTCCAACCTGGA***Deletion***TCGTACCTCTCTCG
Allele-1: 88bp deletion in exon2

WT GAGTCCAACCTGGA**********TCGTACCTCTCTCG
Mut GAGTCCAACCTGGA***Deletion***TCGTACCTCTCTCG
Allele-2: 88bp deletion in exon2

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

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