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ACE2 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02377

Basic Information

Catalog No.
RM02377

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxydipeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS and HCoV-NL63. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
ACE2

Species
Human

Gene ID
59272

Swiss Prot
Q9BYF1

Synonyms
ACEH

Product Information

Description
ACE2 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:exon3 was deleted
Allele-2:exon3 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
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

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

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Sequencing data

WT TACTTTGTGCTAGT**********GGTTTATTTTCTCT
Mut TACTTTGTGCTAGT***Deletion***GGTTTATTTTCTCT
Allele-1: exon3 was deleted

WT TACTTTGTGCTAGT**********GGTTTATTTTCTCT
Mut TACTTTGTGCTAGT***Deletion***GGTTTATTTTCTCT
Allele-2: exon3 was deleted

Genome sequence analysis of PCR products from parental (WT) and ACE2 knockout (KO) 293T cells, using sanger sequencing.