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DAO Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02797

Basic Information

Catalog No.
RM02797

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. Its biological function is not known; it may act as a detoxifying agent which removes D-amino acids that accumulate during aging. In mice, it degrades D-serine, a co-agonist of the NMDA receptor. This gene may play a role in the pathophysiology of schizophrenia.

Gene Information

Gene Symbol
DAO

Species
Human

Gene ID
1610

Swiss Prot
P14920

Synonyms
DAAO; OXDA; DAMOX

Product Information

Description
DAO Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:74bp deletion in exon1
Allele-2:74bp deletion in exon1
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

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WT    CTCTGCATCCATGA**********ACGTGGCTGCCGGC
Mut   CTCTGCATCCATGA***Deletion***ACGTGGCTGCCGGC
Allele-1:    74bp deletion in exon1

WT    CTCTGCATCCATGA**********ACGTGGCTGCCGGC
Mut   CTCTGCATCCATGA***Deletion***ACGTGGCTGCCGGC
Allele-2:    74bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and DAO knockout (KO) 293T cells, using sanger sequencing.