Leader in Biomolecular Solutions for Life Science

www.abclonal.com

TDO2 Knockdown 293T Cell Lysate, Heterozygous

Catalog No.: RM02300

Basic Information

Catalog No.
RM02300

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockdown

Gene Information

Gene Symbol
TDO2

Species
Human

Gene ID
6999

Swiss Prot
P48775

Synonyms
TDO; TO; TPH2; TRPO

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

This gene encodes a heme enzyme that plays a critical role in tryptophan metabolism by catalyzing the first and rate-limiting step of the kynurenine pathway. Increased activity of the encoded protein and subsequent kynurenine production may also play a role in cancer through the suppression of antitumor immune responses, and single nucleotide polymorphisms in this gene may be associated with autism. [provided by RefSeq, Feb 2012]

Product Information

Description
TDO2 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:62bp deletion in exon2
Allele-2:63bp 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

WT AAAAACTCCCCGTA**********CTATGGGAACTACC
Mut AAAAACTCCCCGTA***Deletion***TTATGGGAACTACC
Allele-1: 62bp deletion in exon2

WT AAAAACTCCCCGTA**********TATGGGAACTACCT
Mut AAAAACTCCCCGTA***Deletion***TATGGGAACTACCT
Allele-2: 63bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and TDO2 Knockdown (KD) 293T cells, using sanger sequencing.