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ADAMTS4 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02274

Basic Information

Catalog No.
RM02274

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
ADAMTS4

Species
Human

Gene ID
9507

Swiss Prot
O75173

Synonyms
ADAMTS-2; ADAMTS-4; ADMP-1

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Background

This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of this family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene lacks a C-terminal TS motif. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The expression of this gene is upregulated in arthritic disease and this may contribute to disease progression through the degradation of aggrecan. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Product Information

Description
ADAMTS4 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:86bp deletion in exon1
Allele-2:86bp 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
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 TCCTGCTCCCCATT**********GGAGGAGGAGATCG
Mut TCCTGCTCCCCATT***Deletion***GGAGGAGGAGATCG
Allele-1: 86bp deletion in exon1

WT TCCTGCTCCCCATT**********GGAGGAGGAGATCG
Mut TCCTGCTCCCCATT***Deletion***GGAGGAGGAGATCG
Allele-2: 86bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and ADAMTS4 knockout (KO) 293T cells, using sanger sequencing.