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MMP9 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01785

Basic Information

Catalog No.
RM01785

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Species
Human

Gene ID
4318

Swiss Prot
P14780

Synonyms
CLG4B; GELB; MANDP2; MMP-9

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Background

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008]

Product Information

Description
MMP9 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:98bp deletion in exon2
Allele-2:98bp 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

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WT    TGGAGAGTCGAAAT**************TGCGGGGTCCCAGA
Mut   TGGAGAGTCGAAAT***Deletion***TGCGGGGTCCCAGA
Allele-1：98bp deletion in exon2

WT    TGGAGAGTCGAAAT**************TGCGGGGTCCCAGA
Mut   TGGAGAGTCGAAAT***Deletion***TGCGGGGTCCCAGA
Allele-2：98bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and MMP9 knockout (KO) 293T cells, using sanger sequencing.