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# MMP13 Knockdown 293T Cell Lysate, Heterozygous

**Catalog No.: RM02296**

## Basic Information

**Catalog No.**
RM02296

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockdown

## Background

This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. Mutations in this gene are associated with metaphyseal anadysplasia. This gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016]

## Gene Information

**Gene Symbol**
MMP13

**Species**
Human

**Gene ID**
4322

**Swiss Prot**
P45452

**Synonyms**
CLG3; MANDP1; MDST; MMP-13

## Contact


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## Product Information

**Description**
MMP13 Knockdown 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:81bp deletion in exon2
Allele-2:83bp 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**
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.

## Sequencing data

WT ATACTACCATCCTA**********TAGAGGTGACTGGC
Mut ATACTACCATCCTA***Deletion***TAGAGGTGACTGGC
Allele-1: 81bp deletion in exon2

WT ATCATACTACCATC**********TTAGAGGTGACTGG
Mut ATCATACTACCATC***Deletion***TTAGAGGTGACTGG
Allele-2: 83bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and MMP13 Knockdown (KD) 293T cells, using sanger sequencing.