

Product Information

MemDX™ Antibody Discovery - Human MMP-2 (30-660) Membrane Protein, Partial, -His tag

Cat. No.: **MP0663F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human MMP-2 (30-660). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species

Human

Target Protein

MMP-2

Protein Length

ECD

Molecular Weight

The protein has a calculated MW of 71.8 kDa. The protein migrates as 66-71 kDa under reducing (R) condition (SDS-PAGE).

Sequence

AA Ala 30 - Cys 660 (Accession # AAH02576).

Product Description

Application

SDS-PAGE

Expression Systems

HEK293

Tag

His tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>92% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH8.0. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

Target**Target Protein**

MMP-2

Full Name

matrix metalloproteinase 2

Introduction

This gene is a member of the matrix metalloproteinase (MMP) gene family, that are zinc-dependent enzymes capable of cleaving components of the extracellular matrix and molecules involved in signal transduction. The protein encoded by this gene is a gelatinase A, type IV collagenase, that contains three fibronectin type II repeats in its catalytic site that allow binding of denatured type IV and V collagen and elastin. Unlike most MMP family members, activation of this protein can occur on the cell membrane. This enzyme can be activated extracellularly by proteases, or, intracellularly by its S-glutathiolation with no requirement for proteolytical removal of the pro-domain. This protein is thought to be involved in multiple pathways including roles in the nervous system, endometrial menstrual breakdown, regulation of vascularization, and metastasis. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms.

Alternative Names

CLG4; MONA; CLG4A; MMP-2; TBE-1; MMP-II; 72 kDa type IV collagenase; collagenase type IV-A; matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase); matrix metalloproteinase-2; matrix metalloproteinase-II; neutrophil gelatinase

Gene ID

[4313](#)

UniProt ID

[P08253](#)