

# Product Information

## Anti-MMP16

antibody produced in chicken,  
affinity isolated antibody

Catalog Number **GW21128**

Formerly listed as GenWay Catalog Number  
15-288-21128, Matrix metalloproteinase-16 Antibody.  
Storage Temperature –20 °C

Synonyms: EC 3.4.24.-, MT3-MMP, MMP-X2, MMP-16, Matrix metalloproteinase 16 isoform 2 preproprotein, Membrane-type matrix metalloproteinase 3, MT3MMP, MT-MMP 3, MTMMP3, Membrane-type-3 matrix metalloproteinase

## Product Description

This endopeptidase degrades various components of the extracellular matrix, such as collagen type III and fibronectin. It activates progelatinase A, involved in the matrix remodeling of blood vessels. The short isoform cleaves fibronectin and also collagen type III, but at a lower rate. It has no effect on type I, II, IV, and V collagen; however, upon interaction with CSPG4, it may be involved in degradation and invasion of type I collagen by melanoma cells.

Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of the 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 are secreted as inactive proproteins, which are activated when cleaved by extracellular proteinases. This protein produces at least two transcripts, one which encodes a membrane-bound form and another a soluble form of the protein. Both forms of the protein activate MMP2 by cleavage. This protein was once referred to as MT-MMP2, but was renamed as MT-MMP3 or MMP16.

NCBI Accession number: NP\_072086.1  
Swiss Prot Accession number: P51512

Gene Information: Human .. MMP16 (4325)

Immunogen: Recombinant protein Matrix metalloproteinase 16 isoform 2 preproprotein

Immunogen Sequence: Gi # 13027800,  
sequence 407-457

The product is a clear, colorless solution in phosphate buffered saline, pH 7.2, containing 0.02% sodium azide.

Species Reactivity: Human

Tested Applications: WB

Recommended Dilutions: Recommended starting dilution for Western blot analysis is 1:500, for tissue or cell staining 1:200.

**Note:** Optimal concentrations and conditions for each application should be determined by the user.

## Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

## Storage/Stability

For continuous use, store at 2–8 °C for up to one week. For extended storage, store in –20 °C freezer in working aliquots. Repeated freezing and thawing, or storage in “frostfree” freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

KAA,LPG,MAM 02/10-1

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