

## MMP-2 Mouse Monoclonal Antibody

### Catalog #: EAB11955

| Host/Isotype | Clonality  | Applications  | MW (kDa) | Reactivity        |
|--------------|------------|---------------|----------|-------------------|
| Mouse IgG1   | Monoclonal | WB, IHC-P, IF | 74       | Human, Mouse, Rat |

### Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|                                      |            |
|--------------------------------------|------------|
| WB(Western Blotting)                 | 1:500-2000 |
| IHC-P(Immunohistochemistry-Paraffin) | 1:50-300   |
| IF(Immunofluorescence)               | 1:50-300   |

### Product Information

|                |                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Conjugate      | Unconjugate                                                                                                                               |
| Specificity    | MMP-2 Mouse Monoclonal Antibody detects endogenous levels of MMP-2 protein.                                                               |
| Purification   | Affinity purification                                                                                                                     |
| Concentration  | 1mg/ml                                                                                                                                    |
| Format         | Liquid                                                                                                                                    |
| Formulation    | In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol                                                                  |
| Shipping       | Gel Pack                                                                                                                                  |
| Storage        | Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles.<br>Aliquots may be stored at +4°C for 1-2 weeks |
| UniProt ID     | <a href="#">P08253</a>                                                                                                                    |
| Entrez-Gene ID | <a href="#">4313</a>                                                                                                                      |

### Product Description

MMP-2 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.

**For Reserch Use Only. Not For Use In Diagnostic Procedures**