

Product datasheet

Anti-MMP1 antibody [EPR19769-2] ab222582

Recombinant **RabMAb**

[2 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-MMP1 antibody [EPR19769-2] |
| Description | Rabbit monoclonal [EPR19769-2] to MMP1 |
| Host species | Rabbit |
| Tested applications | Suitable for: Sandwich ELISA |
| Species reactivity | Reacts with: Human |
| Immunogen | The details of the immunogen for this antibody are not available. |
| General notes | <p>Anti-MMP1 antibody is used in our 90-minute Human MMP1 ELISA Kit (ab215083), and is available in a Matched Antibody Pair Kit (ab218184).</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS |
| Purity | Affinity purified |
| Clonality | Monoclonal |
| Clone number | EPR19769-2 |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab222582** in the following tested applications.

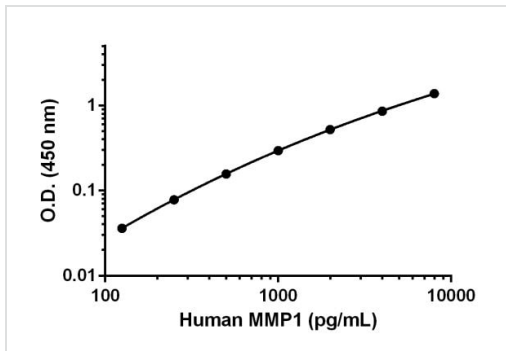
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|----------------|-----------|--|
| Sandwich ELISA | | Use at an assay dependent concentration. |

Target

| | |
|---|--|
| Function | Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X. In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat's mediated neurotoxicity. |
| Sequence similarities | Belongs to the peptidase M10A family. Contains 4 hemopexin-like domains. |
| Domain | There are two distinct domains in this protein; the catalytic N-terminal, and the C-terminal which is involved in substrate specificity and in binding TIMP (tissue inhibitor of metalloproteinases). The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme. |
| Post-translational modifications | Undergoes autolytic cleavage to two major forms (22 kDa and 27 kDa). A minor form (25 kDa) is the glycosylated form of the 22 kDa form. The 27 kDa form has no activity while the 22/25 kDa form can act as activator for collagenase. |
| Cellular localization | Secreted > extracellular space > extracellular matrix. |

Images







Sandwich ELISA - Anti-MMP1 antibody [EPR19769-2] (ab222582)

Example of human MMP1 standard curve in 1X Cell Extraction Buffer PTR using recombinant MMP1 RabMAb antibody (ab222582) and a recombinant monoclonal antibody. Background-subtracted values (mean +/- SD) are graphed.

For a complete ELISA kit, see Human MMP1 ELISA kit ([ab215083](#)).

For a matched antibody pair set, see Human MMP1 Matched Antibody Pair Kit ([ab218184](#)).

Why choose a recombinant antibody?

| | |
|---|---|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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