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Datasheet for ABIN2855888  
**anti-MMP7 antibody (C-Term)**

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### Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µL  |
| Target:              | MMP7  |
| Binding Specificity: | C-Term  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This MMP7 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

### Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human MMP7. The exact sequence is proprietary. |
| Isotype:          | IgG   |
| Cross-Reactivity: | Cow, Human, Mouse, Rat  |
| Characteristics:  | Rabbit polyclonal antibody to MMP7 (matrix metalloproteinase 7 (matrilysin, uterine))<br>MMP7 antibody [C2C3], C-term                               |
| Purification:     | Purified by antigen-affinity chromatography.  |

### Target Details

|         |      |
|---------|------|
| Target: | MMP7 |
|---------|------|

## Target Details

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|                   |  |
|-------------------|--|
| Alternative Name: | matrix metalloproteinase 7 ( <a href="#">MMP7 Products</a> )   |
| Background:       | <p>Proteins of the matrix metalloproteinase (MMP) 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. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades proteoglycans, fibronectin, elastin and casein and differs from most MMP family members in that it lacks a conserved C-terminal protein domain. The enzyme is involved in wound healing, and studies in mice suggest that it regulates the activity of defensins in intestinal mucosa. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.</p> <p>Cellular Localization: Secreted , extracellular space , extracellular matrix</p> |
| Molecular Weight: | 30 kDa   |
| Gene ID:          | 4316   |
| UniProt:          | <a href="#">P09237</a>   |
| Pathways:         | <a href="#">Production of Molecular Mediator of Immune Response</a>  |

## Application Details

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|                    |   |
|--------------------|---|
| Application Notes: | WB: 1:500-1:3000. Optimal dilutions/concentrations should be determined by the researcher.<br>Not tested in other applications. |
| Comment:           | Validation: Orthogonal  |
| Restrictions:      | For Research Use only   |

## Handling

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|                    |   |
|--------------------|---|
| Format:            | Liquid  |
| Concentration:     | 0.45 mg/mL  |
| Buffer:            | 1XPBS pH 7, 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300   |
| Preservative:      | ProClin   |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C,-20 °C   |

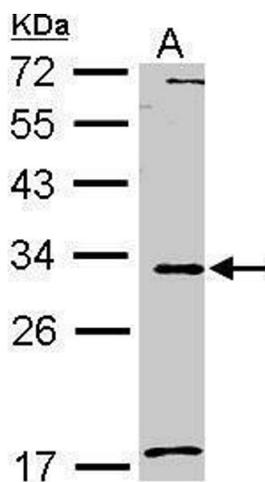
## Handling

Storage Comment: Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

## Publications

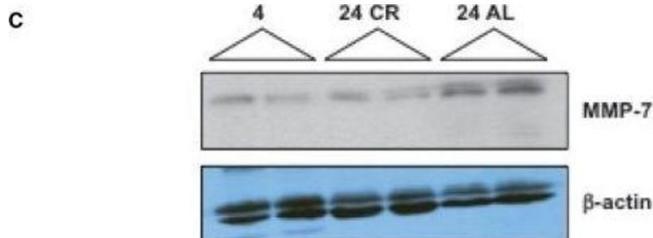
Product cited in: Alfonso-Pérez, Hayward, Holder, Gruneberg, Barr: "MAD1-dependent recruitment of CDK1-CCNB1 to kinetochores promotes spindle checkpoint signaling." in: **The Journal of cell biology**, Vol. 218, Issue 4, pp. 1108-1117, (2020) ([PubMed](#)).

## Images



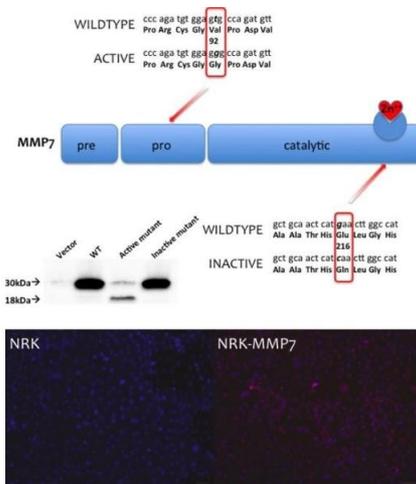
### Western Blotting

**Image 1.** WB Image Sample (30 ug of whole cell lysate) A: A549 12% SDS PAGE antibody diluted at 1:1000



### Western Blotting

**Image 2.** Age-dependent changes in MMP/TIMP expression in the kidney. (A) Relative expression of MMPs and TIMPs in young (4 AL), old (24 AL), and calorie-restricted animals (24 CR) as determined by real-time PCR.  $\beta$ -actin was used as the reference gene. Expression of MMP-2, -3, -7, -9, -12, -13, -14, -16, -17, -19, -20, -23, and -25, as well as TIMP-1 changed significantly as a function of age. Of these, the increased expression of MMP-2, -7, -9, -12, -13, -14, -16, -20, -23, and -25 was attenuated by caloric restriction, as was TIMP-1, with  $P < 0.05$ . (B) MMP-7 expression in aging rat kidneys is significantly increased as early as 16 months.  $*P < 0.05$ . (C) MMP-7 protein expression is increased in the 24-month-old



rat kidney, but not CR controls. Each lane represents a lysate from an individual animal. - figure provided by CiteAb. Source: PMID29466986

### Western Blotting

**Image 3.** Generation of MMP-7 overexpressing cell lines. Normal rat kidney cells (NRK-52E) were stably transfected with full-length human MMP-7 (WT), a catalytically active mutant and an inactive mutant form. Immunofluorescence staining with anti-MMP-7 antibody in vector and MMP-7 WT overexpressing cells, DAPI counterstain (bottom panels). Concentrated conditioned medium immunoblotted with anti-MMP-7 antibody shows bands for proform ~30 kDa and active form ~18 kDa (insert). - figure provided by CiteAb. Source: PMID29466986