Rabbit anti MMP-7 (Matrilysin) Polyclonal Antibody

Alternative Name(s): Matrix metallopeptidase 7

Order Information

- **Description:** MMP-7 (Matrilysin)
- **Catalogue:** 602-830
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A synthetic peptide corresponding to the C-terminus of human MMP-7. This sequence is identical among bovine and monkey.

BACKGROUND

Matrix metalloproteinases (MMPs) belong to a family of proteinases that target many extracellular matrix proteins including additional proteinases, growth factors, cell surface receptors and adhesion molecules. MMPs contain common domain structures that include a signal sequence, a propeptide, a catalytic domain, and a hemopexin-like (Hpx) domain. The MMP activity requires proteolytic cleavage of MMPs in order to generate activie MMPs by release of the inhibitory propeptide domain from the whole molecules. MMP-2, MMP-3, MMP-7, MMP-9 and MMP-13 have been characterized as important factors for normal tissue remodeling during embryo development and wound healing, tumor invasion, angiogenesis, carcinogenesis and apoptosis. MMP activities are correlated with cancer metastatic process. MMP-7, also known as matrilysin/PUMP-1, plays an important role in hydrolyzing proteoglycans and ECM glycoproteins. It is also expressed in normal cells, specifically glandular epithelial cells. In pancreatic carcinoma, the higher expression of MMP-2, 7 and 11 is observed.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes ~30 kDa of human MMP-7 protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 30.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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*Optimal dilutions should be determined by researchers for the specific applications.

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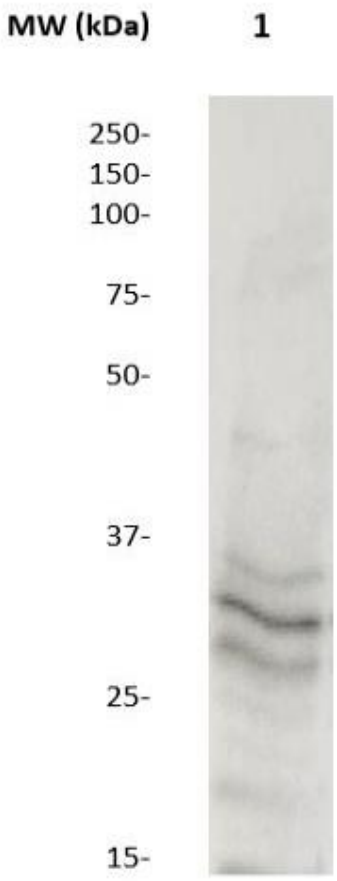
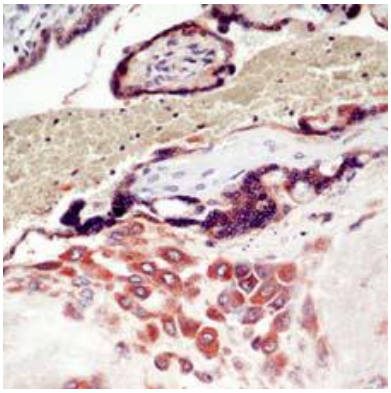
DATA ATTACHMENTS



Western Blot: The protein derived from the whole cell lysate of PMA stimulated A431 was resolved onto 12% SDS-PAGE, transferred to NC membrane, followed by an immunoblotting with Rabbit anti-MMP-7 (Cat#602-830) at 1:1000 . Observed a major immunoreactive band at molecular weight ~30 kDa.



Immunohistochemistry: Human Breast carcinoma (FFPE) stained with Rabbit anti-MMP7 (Cat# 602-830) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES