

## MMP-13 rabbit pAb

**Cat#: orb765679 (Manual)**

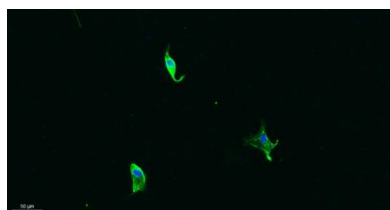
For research use only. Not intended for diagnostic use.

|                                 |   |
|---------------------------------|---|
| <b>Product Name</b>             | MMP-13 rabbit pAb   |
| <b>Host species</b>             | Rabbit  |
| <b>Applications</b>             | WB;IHC;IF;ELISA   |
| <b>Species Cross-Reactivity</b> | Human;Rat;Mouse;  |
| <b>Recommended dilutions</b>    | Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000. IF 1:100-300 Not yet tested in other applications.     |
| <b>Immunogen</b>                | The antiserum was produced against synthesized peptide derived from human MMP-13. AA range:10-59                      |
| <b>Specificity</b>              | MMP-13 Polyclonal Antibody detects endogenous levels of MMP-13 protein.   |
| <b>Formulation</b>              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..  |
| <b>Storage</b>                  | Store at -20°C. Avoid repeated freeze-thaw cycles.  |
| <b>Protein Name</b>             | Collagenase 3   |
| <b>Gene Name</b>                | MMP13   |
| <b>Cellular localization</b>    | Secreted, extracellular space, extracellular matrix . Secreted .  |
| <b>Purification</b>             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Clonality</b>                | Polyclonal  |

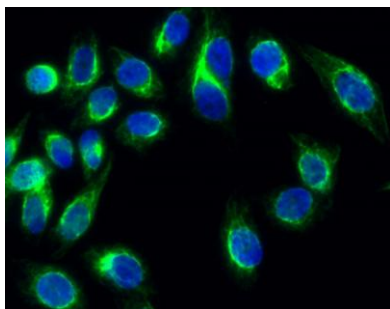
|                                |   |
|--------------------------------|---|
| <b>Concentration</b>           | 1 mg/ml   |
| <b>Observed band</b>           | 55kD  |
| <b>Human Gene ID</b>           | 4322  |
| <b>Human Swiss-Prot Number</b> | P45452  |
| <b>Alternative Names</b>       | MMP13; Collagenase 3; Matrix metalloproteinase-13; MMP-13 |

## Background

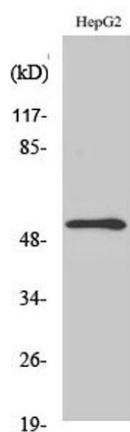
This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. Mutations in this gene are associated with metaphyseal anadysplasia. This gene is part of a cluster of MMP genes on chromosome 11. [provided by RefSeq, Jan 2016],



**Immunofluorescence analysis of A549.** 1,primary Antibody was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 488 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.



**Immunofluorescence analysis of Hela cell. 1, MMP-13 Polyclonal Antibody (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog: RS3211 was diluted at 1:1000 (room temperature, 50 min). 3 DAPI (blue) 10 min.**



**Western Blot analysis of various cells using MMP-13 Polyclonal Antibody diluted at 1:500**



**Western blot analysis of mouse-brain lysis using MMP-13 antibody. Antibody was diluted at 1:500**