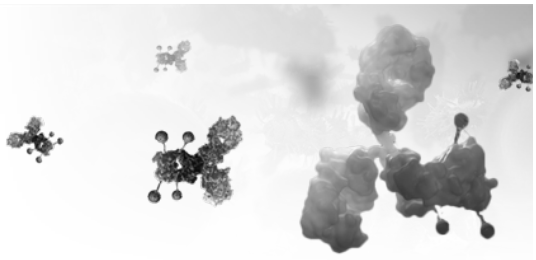

# Anti-MMP13 (aa 362-471) polyclonal antibody (DPAB-DC1935)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

| | |
|---|---|
| **Antigen Description** | 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 MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The protein encoded by this gene 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. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. |
| **Immunogen** | MMP13 (NP_002418, 362 a.a. ~ 471 a.a) partial recombinant protein with GST tag.<br>The sequence is<br>ILEGYPKKISELGLPKEVKKISAAVHFEDTGKTLLFSGNQVWRYDDTNHIMDKDYPRLIE EDFPGIGDKVDAVYEKNGYIYFFNGPIQFEYSIWSNRIVRVMPANSILWC |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Conjugate** | Unconjugated |
| **Applications** | WB (Recombinant protein), ELISA, |
| **Size** | 50 µl |
| **Buffer** | 50 % glycerol |
| **Preservative** | None |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

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# GENE INFORMATION

| | |
|---|---|
| **Gene Name** | MMP13 matrix metallopeptidase 13 (collagenase 3) [ Homo sapiens (human) ] |
| **Official Symbol** | MMP13 |
| **Synonyms** | MMP13; matrix metallopeptidase 13 (collagenase 3); CLG3; MANDP1; MMP-13; collagenase 3; matrix metalloproteinase 13 (collagenase 3); |
| **Entrez Gene ID** | 4322 |
| **Protein Refseq** | NP_002418 |
| **UniProt ID** | P45452 |
| **Chromosome Location** | 11q22.3 |
| **Pathway** | AGE/RAGE pathway; Assembly of collagen fibrils and other multimeric structures; Collagen formation; Endochondral Ossification |
| **Function** | calcium ion binding; collagen binding; metalloendopeptidase activity; zinc ion binding |

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