Matrix Metalloproteinase 2 (MMP2). Mouse Monoclonal Antibody
MMP2; MMP-2; CLG4; CLG4A; Matrix metallopeptidase 2; 72 kDa Type IV collagenase precursor; 72 kDa gelatinase, Gelatinase A

**BACKGROUND**
The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, fibronectin, laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-2 (also designated type IV collagenase) cleaves Collagen Types IV, V, VII and X and gelatin type I. Activation of MMP-2 secretion requires the Ras signaling pathway.

**IMMUNOGEN**
Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a synthetic peptide derived from the C-terminus of the human MMP2 protein and mouse myeloma Ag8563 cells.

A. Immunohistochemical staining of human oesophageal adenocarcinoma tissue using MMP-2 antibody (Cat. No. X2054M).
B. Western blot using MMP-2 antibody on recombinant MMP-2 proenzyme (400 ng/lane).

**ORDERING INFORMATION**

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<tr>
<th>CATALOG NUMBER</th>
<th>SIZE</th>
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<th>HOST/CLONE</th>
<th>FORMULATION</th>
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<tr>
<td>X2054M</td>
<td>200 µg</td>
<td>Unconjugated</td>
<td>Mouse Clone 4D3</td>
<td>Provided as solution in phosphate buffered saline with 0.08% sodium azide</td>
<td>See vial for concentration</td>
<td>IgG1</td>
<td>ELISA, Western Blot, Immunohistochemistry</td>
<td>Human</td>
<td>P08253</td>
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**POSITIVE CONTROL/TISSUE EXPRESSION**

Oesophageal and gastric tissues. Expression higher cancerous tissue versus normal tissues.

**COMMENTS**

Antibody can be used for Western blotting (1-2 µg/ml) and immunohistochemistry on formlin-fixed paraffin-embedded tissue sections (1-5 µg/ml). Optimal concentration should be evaluated by serial dilutions.

**PURIFICATION**

Protein A/G Chromatography

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**


**PRODUCT SPECIFIC REFERENCES**