



Activated Matrix Metalloproteinase 2 (MMP-2) Data Sheet

Catalog Number:	RA22107	Host:	Rabbit
Product Type:	Affinity Purified Antibody	Species:	Rat, Human
Immunogen Sequence:	peptide corresponding to the C terminus of MMP2, specifically MGPLLVATFWPELPEK, which was coupled to keyhole limpet hemocyanin with glutaraldehyde as described in reference 1.	Reactivity:	
Applications:	Immunohistochemistry: 1:500-1:1,000 Immunofluorescence: 1:500-1:1,000 Western Blot: 1:10,000	Format:	Liquid. Concentration 1 mg/ml.
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° -8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		
References:	<ol style="list-style-type: none">1. Collier, I. E., Wilhelm, S. M., Eisen, A. Z., Marmor, B. L., Grant, G. A., Seltzer, J. L., Kronberger, A., He, C. S., Bauer, E. A., and Goldberg, G. I. H-ras oncogene-transformed human bronchial epithelial cells (TBE-1) secrete a single metalloprotease capable of degrading basement membrane collagen. J. Biol. Chem. 263:6579-6587 (1988).2. C. Krekoski, D. Neubauer, J.B. Graham D. Muir. Metalloproteinase-dependent predegeneration in vitro enhances axonal regeneration within acellular peripheral nerve grafts. J. Neuroscience 22:10408-10415 (2002).3. D. Muir. Differences in proliferation and invasion by normal, transformed and NF1 Schwann cell cultures are influenced by matrix metalloproteinase expression. Clinical and Experimental Metastasis 13:303-314 (1995).		

Application Notes

The proform has a molecular weight of 72kDa and the active form 62kDa. A C-terminus peptide (aa. 475-490) was selected which is highly conserved and unique to MMP2, and is present in both pro- and active forms. The peptide was conjugated to KLH and used to immunize rabbits. The hyperimmune serum was affinity purified on a peptide-coupled sepharose column. The purified immunoglobulin recognizes 72 kDa and 66 kDa bands corresponding to MMP2 on Western immunoblots. Some tissue extracts also show MMP2 complexes and degradation products. Polyclonal MMP2/475 antibody immunostains MMP2 specifically in various tissue preparations including paraffin sections.

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