**MMP-1 (Collagenase-1) Ab-6**

Rabbit Polyclonal Antibody  
Cat. #RB-1536-P0, -P1, or -P ((0.1ml, 0.5ml, or 1.0ml at 1.0mg/ml)) (Purified Ab with BSA and Azide)  
Cat. #RB-1536-P1ABX or -PABX (0.5ml or 1.0ml at 1.0mg/ml) (Purified Ab without BSA and Azide)  
Cat. #RB-1536-R7 (7.0ml) (Ready-to-Use for Immunohistochemistry)  
Cat. #RB-1536-PCS (5 Slides) (Positive Control for Histology)  
Cat. #RB-1536-PCL (0.1ml) (Positive Control for Western Blot)

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**Description:** Matrix metalloproteinases (MMP) are proteolytic enzymes capable of degrading connective tissue components. Imbalanced secretion of certain MMP or disturbances in the differential control of MMP by tissue inhibitor of MMPs (TIMPs) are implicated in the invasive potential of malignant tumors. Interstitial collagenase (MMP-1), 72kDa gelatinase A/type IV collagenase (MMP-2), and 92kDa gelatinase B/type IV collagenase (MMP-9) dissolve extracellular matrix (ECM) and may initiate and promote angiogenesis.

**Mol. Wt. of Antigen:** 52kDa (unglycosylated) and 57kDa (glycosylated) species of pro form of MMP-1 plus 42kDa (unglycosylated) and 47kDa (glycosylated) active form of MMP-1.

**Epitope:** Middle region of MMP-1

**Species Reactivity:** Human. Does not react with cow. Others-not known.

**Immunogen:** A synthetic peptide from the middle region of the human MMP-1.

**Applications and Suggested Dilutions:**
- Western Blotting (Ab-1 is better)  
  (Ab 5-10µg/ml for 2 hrs at RT)  
- Immunohistochemistry (Formalin/paraffin)  
  (Use Ab at 1:12.5 to 1:25 for 20 min at RT using UltraVision LP Detection Systems, for 30 min at RT using UltraVision or UltraVision ONE Detection Systems)  
  [Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 10mM citrate buffer, pH 6.0. (Lab Vision Cat. #AP-9003), for 10-20 min followed by cooling at RT for 20 min.]

The optimal dilution for a specific application should be determined by the investigator.

**Positive Control:** Conditioned, serum-free medium from (TPA-treated) HFL-1 cells. Colon carcinoma. Placenta. Bladder, breast, ovarian carcinoma.

**Cellular Localization:** Cytoplasmic

**Storage and Stability:** Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

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**Suggested References:**

**Limitations and Warranty:**
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

**Material Safety Data:**
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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**For Research Use Only**
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Please note this data sheet has been changed effective June 7, 2012

Additional Suggested References: