

## Basic Information

<b>Product Name</b>	Anti-MMP2 Antibody (Clone#OTI4A11)	
<b>Gene Name</b>	MMP2	
<b>Source</b>	Mouse	
<b>Isotype</b>	IgG2a	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC	
<b>Contents</b>	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.	
<b>Immunogen</b>	Human recombinant protein fragment corresponding to amino acids 228-507 of human MMP2(NP_004521) produced in E.coli.	
<b>concentration</b>	500 ug/ml	
<b>Purification</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)	
<b>Observed MW</b>	70.9KD	
<b>Dilution Ratios</b>	Western blot (WB): 1:2000 Immunohistochemistry in paraffin section (IHC):1:150	

## Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

## Background Information

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 MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

## Selected Validation Data

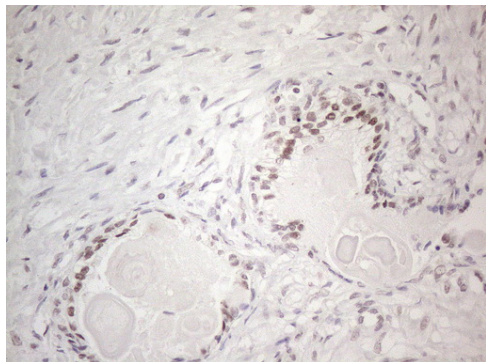


Figure 1. Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-MMP2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, MA00286) (1:150)