

For Research Use Only

# MGP Polyclonal antibody

Catalog Number:10734-1-AP

Featured Product

38 Publications



## Basic Information

<b>Catalog Number:</b> 10734-1-AP	<b>GenBank Accession Number:</b> BC005272	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4256	<b>Recommended Dilutions:</b> IHC 1:200-1:800 IF-P 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08493	
<b>Isotype:</b> IgG	<b>Full Name:</b> matrix Gla protein	
<b>Immunogen Catalog Number:</b> AG1091	<b>Calculated MW:</b> 103 aa, 13 kDa	

## Applications

### Tested Applications:

IHC, IF-P, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**IHC :** human rectal cancer tissue, human breast cancer tissue, human breast hyperplasia tissue, human colon cancer tissue, human lymphoma tissue, human small intestine tissue

**IF-P :** mouse kidney tissue, mouse liver tissue

## Background Information

Matrix Gla protein (MGP), a vitamin K-dependent protein, is recognized as a calcification inhibitor in vascular tissue. Defects in MGP are the cause of Keutel syndrome (KS), which is an autosomal recessive disorder characterized by abnormal cartilage calcification, peripheral pulmonary stenosis neural hearing loss and midfacial hypoplasia.

## Notable Publications

Author	Pubmed ID	Journal	Application
Karolina Sterzyńska	30257426	Int J Mol Sci	WB,IHC,IF
Xin He	32979364	Exp Cell Res	WB,IHC
Yimeng Cui	36185284	Front Oncol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

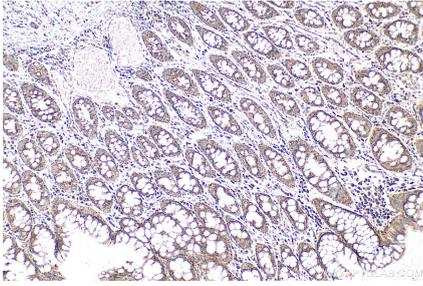
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

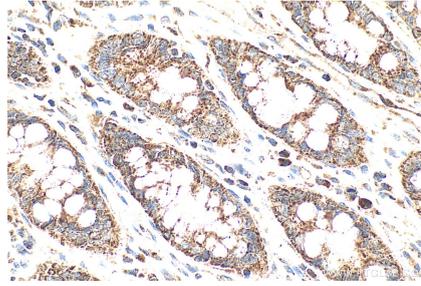
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

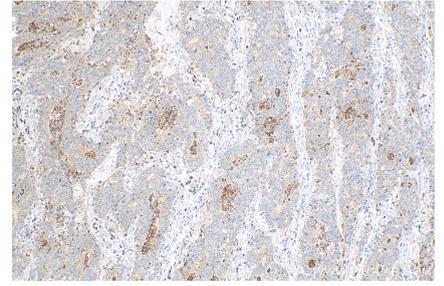
## Selected Validation Data



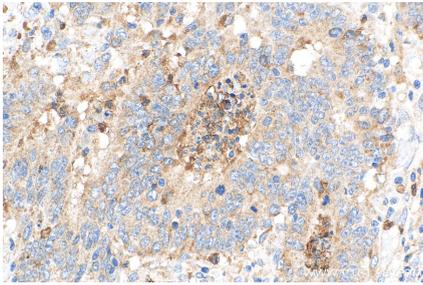
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 10734-1-AP (MGP antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



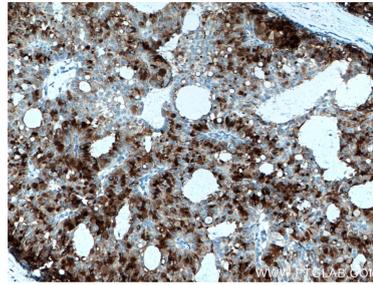
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 10734-1-AP (MGP antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



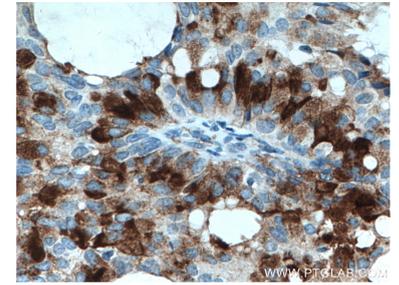
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10734-1-AP (MGP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



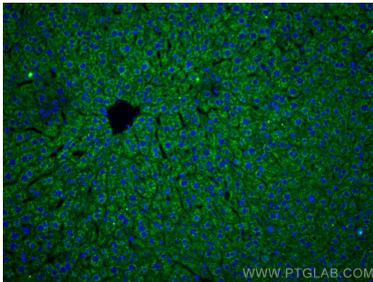
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10734-1-AP (MGP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



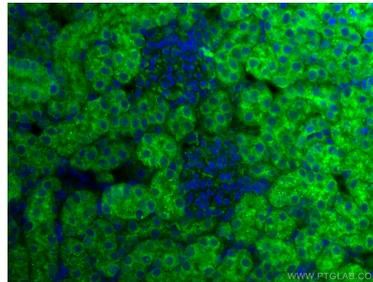
Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 10734-1-AP (MGP antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



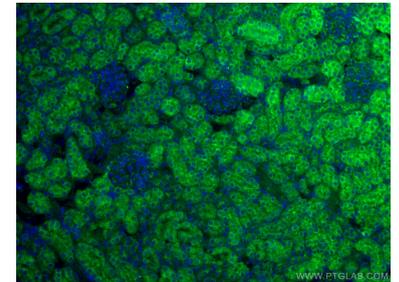
Immunohistochemical analysis of paraffin-embedded human breast hyperplasia tissue slide using 10734-1-AP (MGP antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using MGP antibody (10734-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using MGP antibody (10734-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse kidney tissue using MGP antibody (10734-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).