

For Research Use Only

# PRG2 Polyclonal antibody

Catalog Number: 10766-1-AP

2 Publications



## Basic Information

<b>Catalog Number:</b> 10766-1-AP	<b>GenBank Accession Number:</b> BC005929	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5553	<b>Recommended Dilutions:</b> IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 25 kDa	
<b>Immunogen Catalog Number:</b> AG1150		

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : human breast cancer tissue,
<b>Cited Applications:</b> IF, IHC	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PRG2, also known as BMPG, has 222 amino acid residues with a 16 N-terminal signal sequence, so the mature form has 206 amino acid residues. High levels of PRG2 are present in placenta and pregnancy serum, where it exists as a complex with several other proteins including pregnancy-associated plasma protein A (PAPPA), angiotensinogen (AGT), and C3dg. This protein can be cleaved into eosinophil granule major basic protein (MBP), which is the major constituent of the crystalline core of the eosinophil granule. MBP is highly basic and toxic to both mammalian cells and parasites, and it functions in the defense against invading parasites (PMID: 21270431).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jonathan G Medernach	37497566	Allergy	IF
Ohtomo Kaori K	20826153	Exp Eye Res	IHC

## Storage

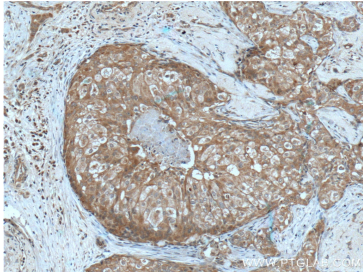
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

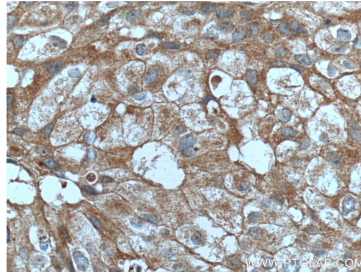
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10766-1-AP (PRG2 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 breast cancer tissue slide using 10766-1-AP (PRG2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).