

For Research Use Only

PRG2 Polyclonal antibody

Catalog Number: 10766-1-AP **2 Publications**



Basic Information

Catalog Number: 10766-1-AP	GenBank Accession Number: BC005929	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 400 ug/ml by Nanodrop and 233 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5553	Recommended Dilutions: IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P13727	
Isotype: IgG	Full Name: proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)	
Immunogen Catalog Number: AG1150	Calculated MW: 25 kDa	

Applications

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

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 Medemach	37497566	Allergy	IF
Ohtomo Kaori K	20826153	Exp Eye Res	IHC

Storage

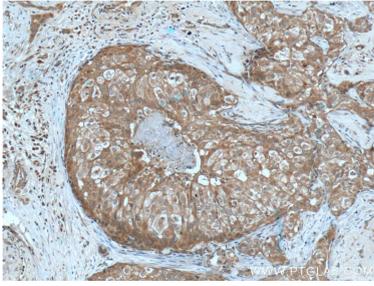
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

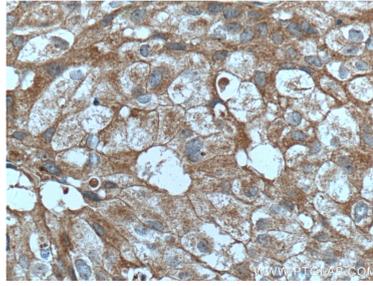
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



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).