



Rabbit Anti-PRG2 antibody

SL10925R

Product Name:	PRG2
Chinese Name:	嗜酸性粒细胞颗粒关键碱性蛋白抗体
Alias:	BMPG; EMBP; Eosinophil granule major basic protein; Major Basic Protein; Eosinophil major basic protein; MBP; MBP1; Natural killer cell activator; Pregnancy-associated major basic protein; PRG 2; PRG2; PRG2_HUMAN; Proteoglycan 2; Proteoglycan 2 bone marrow; Proteoglycan 2 preproprotein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	25kDa
Cellular localization:	cytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PRG2:151-222/222
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene is the predominant constituent of the crystalline core of the eosinophil granule. High levels of the proform of this protein are also 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 may be involved in antiparasitic defense mechanisms as a cytotoxin and helminthotoxin, and in immune hypersensitivity reactions. It is directly implicated in epithelial cell damage, exfoliation, and bronchospasm in allergic diseases. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011].

Function:

Cytotoxin and helminthotoxin. Also induces non-cytolytic histamine release from human basophils. Involved in antiparasitic defense mechanisms and immune hypersensitivity reactions. The proform acts as a proteinase inhibitor, reducing the activity of PAPPA.

Subunit:

In pregnancy serum, the proform exists as a disulfide-linked 2:2 heterotetramer with PAPPA, as a disulfide-linked 2:2 heterotetramer with AGT, and as a complex (probably a 2:2:2 heterohexamer) with AGT and C3dg.

Subcellular Location:

Bone marrow proteoglycan: Secreted. Note=The proform is secreted.

Eosinophil granule major basic protein: Cytoplasmic vesicle, secretory vesicle.

Note=The proform is secreted. The mature protein is found in the matrix of the eosinophil's large specific granule (crystalloid core).

Tissue Specificity:

High levels of the proform in placenta and pregnancy serum; in placenta, localized to X cells of septa and anchoring villi. Lower levels in a variety of other tissues including kidney, myometrium, endometrium, ovaries, breast, prostate, bone marrow and colon.

Post-translational modifications:

Nitrated.

Similarity:

Contains 1 C-type lectin domain.

SWISS:

P13727

Gene ID:

5553

Database links:

[Entrez Gene: 5553](#)Human

[Omim: 605601](#)Human

[SwissProt: P13727](#)Human

[Unigene: 512633](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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