

Recombinant Human PRG2, GST-tagged

Cat. No. PRG2-45H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRG2(123 a.a. - 222 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
ProteinLength	123-222 a.a.
Description	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.
Molecular Mass	36.74 kDa
AA Sequence	FTCRRCYRGNLVSIIHNFNINYRIQCSVSALNQGQVWIGGRITGSGRCRRFQWVDGS RWNFAYWAAHQPSRGGHC VALCTRGGYWRRRAHCLRRLPFICSY
Applications	ELISA; WB-Re; AP; Array

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Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	PRG2 proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein) [Homo sapiens (human)]
Official Symbol	PRG2
Synonyms	PRG2; MBP; BMPG; MBP1; proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein); bone marrow proteoglycan; bone-marrow proteoglycan; proteoglycan 2 preproprotein; natural killer cell activator; eosinophil major basic protein; eosinophil granule major basic protein
Gene ID	5553
mRNA Refseq	NM_001243245
Protein Refseq	NP_001230174
MIM	605601
UniProt ID	P13727
Chromosome Location	11q12
Pathway	Asthma

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Function

carbohydrate binding; heparin binding

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