

## Product datasheet for **TA813063AM**

### Major Basic Protein (PRG2) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1C12]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C12
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 17-222 of human PRG2 (NP_002719) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	25.23 kDa
Gene Name:	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)
Database Link:	<a href="#">NP_002719</a> <a href="#">Entrez Gene 5553 Human</a> <a href="#">P13727</a>



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**Background:**

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. The encoded protein contains a peptide that displays potent antimicrobial activity against Gram-positive bacteria, Gram-negative bacteria, and fungi. 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, Nov 2014]

**Synonyms:**

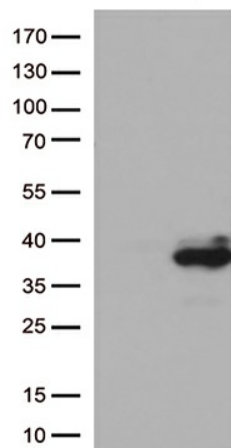
BMPG; MBP; MBP1; proMBP

**Protein Families:**

Secreted Protein

**Protein Pathways:**

Asthma

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PRG2 ([RC203256], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PRG2 (1:500).