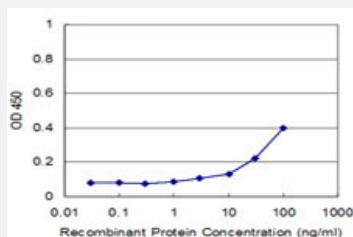


# PRG4 monoclonal antibody (M02), clone 1D5

Catalog # H00010216-M02

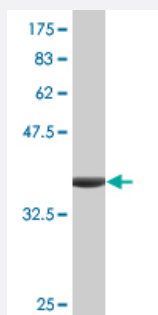
Size 100 ug

## Applications



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRG4 is approximately 3ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a partial recombinant PRG4.

### Immunogen

PRG4 (NP\_005798, 1305 a.a. ~ 1404 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

### Sequence

ERAIGPSQTHIRIQYSPARLAYQDKGVLHNEVKVSILWRGLPNVVTSAISLPNIRKPDGYDYAFSK  
DQYYNIDVPSRTARAITRSGQTLISKVWYNCP

### Host

Mouse

### Reactivity

Human

### Isotype

IgG2a Kappa

**Quality Control Testing**

Antibody Reactive Against Recombinant Protein.  
Western Blot detection against Immunogen (36.74 KDa) .

**Storage Buffer**

In 1x PBS, pH 7.4

**Storage Instruction**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRG4 is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — PRG4

**Entrez GeneID**

[10216](#)

**GeneBank Accession#**

[NM\\_005807](#)

**Protein Accession#**

[NP\\_005798](#)

**Gene Name**

PRG4

**Gene Alias**

CACP, FLJ32635, HAPO, JCAP, MSF, SZP, bG174L6.2

**Gene Description**

proteoglycan 4

**Omim ID**

[208250](#) [604283](#)

**Gene Ontology**

[Hyperlink](#)

**Gene Summary**

The protein encoded by this gene is a large proteoglycan specifically synthesized by chondrocyte s located at the surface of articular cartilage, and also by some synovial lining cells. This protein c ontains both chondroitin sulfate and keratan sulfate glycosaminoglycans. It functions as a boundar y lubricant at the cartilage surface and contributes to the elastic absorption and energy dissipation of synovial fluid. Mutations in this gene result in camptodactyly-arthropathy-coxa vara-pericarditis syndrome. Multiple transcript variants encoding different isoforms have been found for this gene. [ provided by RefSeq

**Other Designations**

OTTHUMP00000033580|articular superficial zone protein|bG174L6.2 (MSF: megakaryocyte stimulating factor )|lubricin|megakaryocyte stimulating factor

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