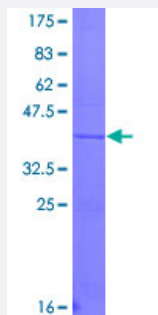


PRG4 (Human) Recombinant Protein (Q01)

Catalog # H00010216-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PRG4 partial ORF (NP_005798, 1305 a.a. - 1404 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	ERAIGPSQTHIRIQYSPARLAYQDKGVLHNEVKVSILWRGLPNVVTSAISLPNIRKPDGYDYAFSK DQYNNIDVPSRTARAITTRSGQTLISKVWYNCP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

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 chondrocytes located at the surface of articular cartilage, and also by some synovial lining cells. This protein contains both chondroitin sulfate and keratan sulfate glycosaminoglycans. It functions as a boundary 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

Publication Reference

- [Cardioprotective proteins upregulated in the liver in response to experimental myocardial ischemia.](#)

Liu SQ, Tefft BJ, Roberts DT, Zhang LQ, Ren Y, Li YC, Huang Y, Zhang D, Phillips HR, Wu YH.

American Journal of Physiology. Heart and Circulatory Physiology 2012 Oct; 303(12):H1446.

Application: ELISA, Mouse, Mouse serum