

Recombinant Human PRG4, GST-tagged

Cat. No. PRG4-1501H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRG4 encoding (1305 a.a. - 1404 a.a.), fused a GST-tag at N-terminal, was expressed in Wheat germ.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	36.74 kDa
Purity	Glutathione Sepharose 4 Fast Flow
Applications	WB
Sequence	ERAIGPSQTHTIRIQYSPARLAYQDKGVLHNEVKVSILWRGLPNVVVTS AISLPNIRKPD GYDYAFAFSKDQYYNID VPSRTARAITTRSGQTL SKVWYNCP

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Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage	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.
OfficialSymbol	PRG4

GENE INFORMATION

Gene Name	PRG4 proteoglycan 4 [Homo sapiens]
Synonyms	PRG4; proteoglycan 4; MSF; SZP; CACP; HAPO; JCAP; FLJ32635; bG174L6.2; lubricin; OTTHUMP00000033580; megakaryocyte stimulating factor; articular superficial zone protein; bG174L6.2 (MSF: megakaryocyte stimulating factor); proteoglycan 4, (megakaryocyte stimulating factor, articular superficial zone protein, camptodactyly, arthropathy, coxa vara, pericarditis syndrome); Megakaryocyte-stimulating factor; Superficial zone proteoglycan; Proteoglycan 4 C-terminal part
Gene ID	10216
mRNA Refseq	NM_005807
Protein Refseq	NP_005798
MIM	604283
UniProt ID	Q92954
Chromosome Location	1q25-q31

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Function

polysaccharide binding; protein binding; scavenger receptor activity

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