

Human Proteoglycan 4 (PRG4) ELISA Kit | PRG4 elisa kit

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CATALOG #
AAA331345

REACTIVITY
Human

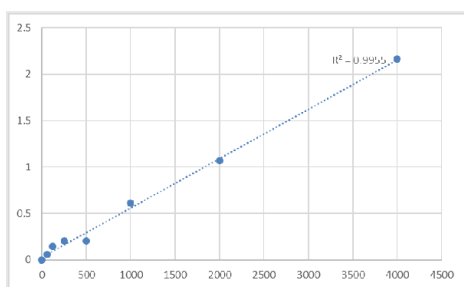
PRODUCT SYNONYMS

Proteoglycan 4 (PRG4); Human Proteoglycan 4 (PRG4) ELISA Kit; PRG4; GS1-174L6.2; CACP; FLJ32635; HAPO; JCAP; MSF; SZP; bG174L6.2; OTTHUMP00000033580; articular superficial zone protein; bG174L6.2 (MSF: megakaryocyte stimulating factor); lubricin; megakaryocyte stimulat; PRG4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Proteoglycan 4 (PRG4) ELISA Kit has high sensitivity and excellent specificity for detection of Human PRG4. No significant cross-reactivity or interference between Human PRG4 and analogues was observed.
Sequence Length	1363
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Proteoglycan 4 (PRG4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PRG4 elisa kit	Description: This Human Proteoglycan 4 (PRG4) ELISA Kit employs a two-site sandwich ELISA to quantitate PRG4 in samples. An antibody specific for PRG4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PRG4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRG4 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRG4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Proteoglycan 4 is an approximately 345-kD 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. The cDNA encodes a protein of 1,404 amino acids with a somatomedin B homology domain, heparin-binding domains, multiple mucin-like repeats, a hemopexin domain, and an aggregation domain. There are 3 consensus sequences for N-glycosylation and 1 chondroitin sulfate substitution site. The locus for autosomal recessive camptodactyly-arthropathy-coxa vara-pericarditis syndrome maps to chromosome 1q25-q31. This protein may act as a joint/intimal cell lubricant, and cell overgrowth may be primary to the pathogenesis of this protein.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	735997424
NCBI GeneID	10216
NCBI Accession #	NP_001121180.2
NCBI GenBank Nucleotide #	NP_001121180.2
UniProt Accession #	Q92954
NCBI Official Full Name	proteoglycan 4 isoform B preproprotein
NCBI Official Synonym Full Names	proteoglycan 4
NCBI Official Symbol	PRG4
NCBI Official Synonym Symbols	MSF; SZP; CACP; HAPO; JCAP
NCBI Protein Information	proteoglycan 4
UniProt Protein Name	Proteoglycan 4
UniProt Gene Name	PRG4
UniProt Synonym Gene Names	MSF; SZP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.