

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

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CATALOG #
AAA217981

REACTIVITY
Human

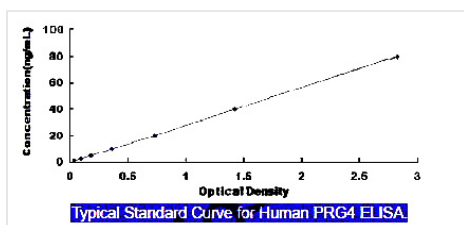
PRODUCT SYNONYMS

Proteoglycan 4 (PRG4); Human Proteoglycan 4 (PRG4) ELISA Kit; MSF; CACP; HAPO; JCAP; SZP; Megakaryocyte Stimulating factor; Articular Superficial Zone Protein; Camptodactyly; Arthropathy; Coxa Vara; Pericarditis Syndrome; PRG4 rtu elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PRG4. No significant cross-reactivity or interference between PRG4 and analogues was observed.
Sequence Length	1363
Samples	Serum, plasma, synovial fluid or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	1.25-80ng/mL
Sensitivity	< 0.54ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PRG4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PRG4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRG4 rtu elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of PRG4 in human serum, plasma, synovial fluid or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PRG4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to PRG4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PRG4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of PRG4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	735997424
NCBI GeneID	10216
NCBI Accession #	NP_001121180.2
NCBI GenBank Nucleotide #	NM_001127708.2
UniProt Accession #	Q92954; Q6DNC4; Q6DNC5; Q6ZMZ5; Q9BX49
Molecular Weight	146,452 Da
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.