

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

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CATALOG #
AAA187026

REACTIVITY
Mouse

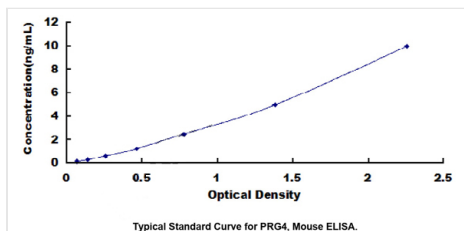
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Mouse
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	1,361
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, synovial fluid and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.065ng/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	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRG4 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PRG4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody 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. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PRG4 in mouse serum, plasma, synovial fluid and other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	735997426
NCBI GeneID	10216
NCBI Accession #	NP_005798.3
NCBI GenBank Nucleotide #	NM_005807.4
UniProt Accession #	Q92954; Q6DNC4; Q6DNC5; Q6ZMZ5; Q9BX49
Molecular Weight	146,468 Da
NCBI Official Full Name	proteoglycan 4 isoform A 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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/proteoglycan-4-prg4/187026>