

## Rat Proteoglycan 4 (PRG4) ELISA Kit

Catalog No: #EK8292



Package Size: #EK8292-1 48T #EK8292-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	Rat Proteoglycan 4 (PRG4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	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
Accession No.	Q92954
Uniprot	Q92954
GenID	10216;
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay 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 anyPRG4 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.**Product Overview:**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.

---

Note: This product is for in vitro research use only