Human Proteoglycan 3 (PRG3) ELISA Kit

Catalog No: #EK8294

Package Size: #EK8294-1 48T #EK8294-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Proteoglycan 3 (PRG3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MBP2; MBPH; MGC126662; MGC141971; prepro-major basic protein homolog
Accession No.	Q9Y2Y8
Uniprot	Q9Y2Y8
GeneID	10394;
Storage	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. 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).

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 PRG3 in samples. An antibody specific for PRG3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRG3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRG3 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 PRG3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Through large-scale sequencing, Plager et al. (1999) identified PRG3 as one of several transcripts upregulated in umbilical cord precursor cells following stimulation with interleukin-5. Using this sequence as probe, Plager et al. (2001) cloned PRG3 from a phage genomic library of placental tissues. Plager et al. (1999) found that the cDNA sequence predicts a mature 117-amino acid protein with a prepro- region of 108 amino acids. PRG3 shares 49% amino acid sequence identity with PRG2. RT-PCR demonstrated that PRG3 is expressed exclusively in bone marrow. Protein purified from eosinophil granules showed a molecular mass of 13.4 kD.Plager et al. (1999) found that the biologic activity of PRG3 is similar to that of PRG2 in cell killing and in neutrophil and basophil stimulation assays, but usually with reduced potency.

Note: This product is for in vitro research use only