

Rat Prostaglandin reductase 1 (PTGR1) ELISA Kit

Catalog No: #EK8018



Package Size: #EK8018-1 48T #EK8018-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Rat Prostaglandin reductase 1 (PTGR1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	RP11-16L21.1; FLJ99229; LTB4DH; MGC34943; PGR1; ZADH3; 15-oxoprostaglandin 13-reductase NADP-dependent leukotriene B4 12-hydroxydehydrogenase leukotriene B4 12-hydroxydehydrogenase zinc binding alco
Accession No.	Q28719
Uniprot	Q28719
GeneID	100009440;
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 PTGR1 in samples. An antibody specific for PTGR1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTGR1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTGR1 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 PTGR1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PTGR1 is an enzyme that is involved in the inactivation of the chemotactic factor, leukotriene B4. The encoded protein specifically catalyzes the NADP+ dependent conversion of leukotriene B4 to 12-oxo-leukotriene B4. A pseudogene of this gene is found on chromosome 1. Alternative splicing results in multiple transcript variants.

Leukotriene B(4) 12-hydroxydehydrogenase catalyzes the conversion of leukotriene B(4) into 12-oxo-leukotriene B(4), its less-active metabolite.The identity between the porcine and human sequences they obtained is 83.5% at the amino acid level and 84.7% at the nucleotide level. Both enzymes are highly homologous with a protein, AdRab-F, expressed only in adult rabbit small intestine

Note: This product is for in vitro research use only