

Pig Prostaglandin G/H synthase 2 (PTGS2) ELISA Kit

Catalog No: #EK11923



Package Size: #EK11923-1 48T #EK11923-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Pig Prostaglandin G/H synthase 2 (PTGS2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Pig (Sus scrofa; Porcine)
Other Names	COX-2; COX2; GRIPGHS; PGG/HS; PGHS-2; PHS-2; hCox-2; cyclooxygenase 2 prostaglandin G/H synthase and cyclooxygenase prostaglandin-endoperoxide synthase 2
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:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate PTGS2 in samples. An antibody specific for PTGS2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTGS2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTGS2 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 PTGS2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Cyclooxygenase (COX) enzymes catalyze the synthesis of prostaglandins (PGs) from arachidonic acid. There are two isoforms of COX, COX-1 and COX-2. While COX-1 is expressed constitutively and appears to be responsible for the production of prostaglandins (PGs) that control normal physiologic functions, expression of COX-2 is induced by various inflammatory and mitogenic stimuli such as cytokines, growth factors or tumor promoters. Numerous experimental studies suggest a relationship between COX-2 expression and carcinogenesis. For example, increased amounts of COX-2 have been observed in breast cancers that overexpress HER-2/neu. Furthermore, treatment with selective inhibitors of COX-2 reduced the formation of tongue, esophageal, intestinal, breast, skin, lung, and bladder tumors in experimental animals.

Note: This product is for in vitro research use only