

Human Prostaglandin Endoperoxide Synthase 2 (PTGS2) ELISA Kit | PTGS2 elisa kit

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CATALOG #
AAA136543

REACTIVITY
Human

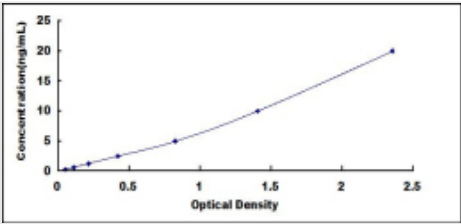
PRODUCT SYNONYMS

Prostaglandin Endoperoxide Synthase 2 (PTGS2); Human Prostaglandin Endoperoxide Synthase 2 (PTGS2) ELISA Kit; PGG/HS; PGHS2; PHS2; HCox2; COX2; Cyclooxygenase 2; Prostaglandin G/H Synthase And Cyclooxygenase; Prostaglandin H2 synthase 2; PTGS2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Prostaglandin Endoperoxide Synthase 2 (PTGS2). No significant cross-reactivity or interference between Prostaglandin Endoperoxide Synthase 2 (PTGS2) and analogues was observed.
Sequence Length	604
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.114ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Prostaglandin Endoperoxide Synthase 2 (PTGS2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Prostaglandin Endoperoxide Synthase 2 (PTGS2) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
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 PTGS2 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Prostaglandin Endoperoxide Synthase 2 (PTGS2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Prostaglandin Endoperoxide Synthase 2 (PTGS2). 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 Prostaglandin Endoperoxide Synthase 2 (PTGS2), 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 Prostaglandin Endoperoxide Synthase 2 (PTGS2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for PTGS2 elisa kit	Enzyme & Kinase; Tumor immunity; Infection immunity; Reproductive science; Pulmonology; Gastroenterology; Hormone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	1020089
NCBI GeneID	5743
UniProt Accession #	P35354; Q16876; A8K802
Molecular Weight	68,996 Da
NCBI Official Full Name	prostaglandin endoperoxide synthase-2
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
NCBI Official Symbol	PTGS2
NCBI Official Synonym Symbols	COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS
NCBI Protein Information	prostaglandin G/H synthase 2
UniProt Protein Name	Prostaglandin G/H synthase 2
UniProt Gene Name	PTGS2
UniProt Synonym Gene Names	COX2; COX-2; PGH synthase 2; PGHS-2
UniProt Entry Name	PGH2_HUMAN

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.