

Human prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) ELISA Kit | PTGS2 elisa kit

Human cyclooxygenase-2, COX-2 ELISA Kit

CATALOG #
AAA80374

REACTIVITY
Human

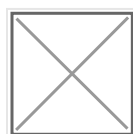
PRODUCT SYNONYMS

prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase); Human cyclooxygenase-2; COX-2 ELISA Kit; COX-2; COX2; GRIPGHS; PGG/HS; PGHS-2; PHS-2; hCox-2; cyclooxygenase 2b; prostaglandin G/H synthase and cyclooxygenase; prostaglandin-endoperoxide synthase 2; PTGS2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human PTGS2. No significant cross-reactivity or interference between Human PTGS2 and analogues was observed.
Sequence Length	604
Samples	Serum, plasma, tissue homogenates, Cell lysates
Assay Type	Sandwich
Detection Range	1.25 ng/ml-80 ng/ml
Sensitivity	0.31 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Biosynthesis/Metabolism
Protein Biological Process 2	Lipogenesis and lipometabolism
Protein Biological Process 3	Fatty acid biosynthesis
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PTGS2 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for COX-2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any COX-2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for COX-2 is added to the wells. After washing, avidin 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 COX-2 bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506265
NCBI GeneID	5743
NCBI Accession #	NP_000954.1
NCBI GenBank Nucleotide #	NM_000963.3
UniProt Accession #	P35354; Q16876; A8K802
Molecular Weight	68,996 Da
NCBI Official Full Name	prostaglandin G/H 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; PHS II; PGH synthase 2; cyclooxygenase 2b; prostaglandin H2 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.

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Online datasheet: <https://stage.aaabiotech.com/ptgs2-human-elisa-kits/prostaglandin-endoperoxide-synthase-2-prostaglandin-g-h-synthase-and-cyclooxygenase/80374>