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

Rat cyclooxygenase-2, COX-2 ELISA Kit

CATALOG #	REACTIVITY
AAA15436	**Rat**

PRODUCT SYNONYMS

prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase); Rat 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	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of rat COX-2. No significant cross-reactivity or interference between rat COX-2 and analogues was observed.
Sequence Length	604
Samples	Serum, plasma, tissue homogenates
Assay Type	Sandwich
Detection Range	1.56 ng/ml -100 ng/ml.
Sensitivity	The minimum detectable dose of rat COX-2 is typically less than 0.39 ng/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	126723503
NCBI GeneID	100009248
NCBI Accession #	NP_001075857.1
NCBI GenBank Nucleotide #	NM_001082388.1
UniProt Accession #	O02768
Molecular Weight	69,007 Da
NCBI Official Full Name	prostaglandin G/H synthase 2
NCBI Official Symbol	PTGS2
NCBI Official Synonym Symbols	COX-2
NCBI Protein Information	prostaglandin G/H synthase 2; PGHS-2; PHS II; PGH synthase 2; cyclooxygenase-2; prostaglandin H2 synthase 2
UniProt Protein Name	Prostaglandin G/H synthase 2
UniProt Gene Name	**PTGS2**
UniProt Synonym Gene Names	COX-2; COX2; COX-2; PGH synthase 2; PGHS-2
UniProt Entry Name	PGH2_RABIT

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/ptgs2-rat-elisa-kits/prostaglandin-endoperoxide-synthase-2-prostaglandin-g-h-synthase-and-cyclooxygenase/15436