

Rat Cyclooxygenase 2 ELISA Kit | COX2 elisa kit

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CATALOG #
AAA16277

REACTIVITY
Rat

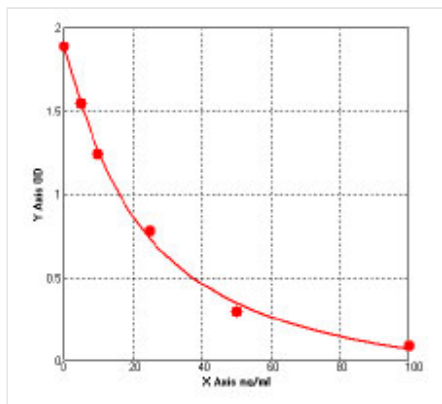
PRODUCT SYNONYMS

Cyclooxygenase 2; Rat Cyclooxygenase 2 ELISA Kit; COX2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of COX2. No significant cross-reactivity or interference between COX2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COX2 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COX2 elisa kit	Principle of the Assay: COX2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-COX2 antibody and an COX2-HRP conjugate. The assay sample and buffer are incubated together with COX2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the COX2 concentration since COX2 from samples and COX2-HRP conjugate compete for the anti-COX2 antibody binding site. Since the number of sites is limited, as more sites are occupied by COX2 from the sample, fewer sites are left to bind COX2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COX2 concentration in each sample is interpolated from this standard curve. Intended Uses: This COX2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat COX2. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
Product Categories/Family for COX2 elisa kit	Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	181254
NCBI GeneID	5743
Molecular Weight	68,996 Da
NCBI Official Full Name	cyclooxygenase-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/cox2-rat-elisa-kits/cyclooxygenase-2/16277>