

Rat Cyclooxygenase 1 ELISA Kit | COX1 elisa kit

Rat Cyclooxygenase 1 ELISA Kit

CATALOG #
AAA96808

REACTIVITY
Rat

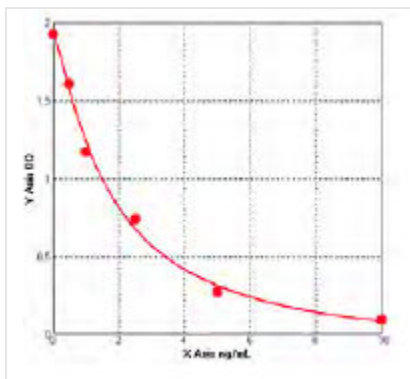
PRODUCT SYNONYMS

Cyclooxygenase 1; Rat Cyclooxygenase 1 ELISA Kit; COX1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of COX-1. No significant cross-reactivity or interference between COX-1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COX-1 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COX1 elisa kit	Intended Uses: This COX-1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat COX-1. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: COX-1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-COX-1 antibody and an COX-1-HRP conjugate. The assay sample and buffer are incubated together with COX-1-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 COX-1 concentration since COX-1 from samples and COX-1-HRP conjugate compete for the anti-COX-1 antibody binding site. Since the number of sites is limited, as more sites are occupied by COX-1 from the sample, fewer sites are left to bind COX-1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COX-1 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for COX1 elisa kit	Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	117307526
NCBI GeneID	100037245
Molecular Weight	67,792 Da
NCBI Official Full Name	cyclooxygenase 1
NCBI Official Synonym Full Names	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)<
NCBI Official Symbol	ptgs1
NCBI Official Synonym Symbols	cox1
NCBI Protein Information	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); cyclooxygenase 1
UniProt Protein Name	Cyclooxygenase 1
UniProt Gene Name	ptgs1
UniProt Synonym Gene Names	COX1
UniProt Entry Name	A0A9J3_XENLA

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/cox1-rat-elisa-kits/cyclooxygenase-1/96808>