

Rat Cyclooxygenase-2 (COX-2) ELISA Kit | COX-2 elisa kit

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CATALOG #
AAA330223

REACTIVITY
Rat

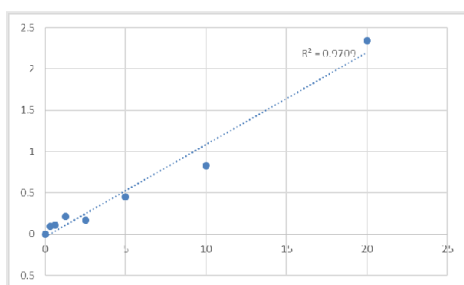
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Rat Cyclooxygenase-2 (COX-2) ELISA Kit has high sensitivity and excellent specificity for detection of Rat PTGS2. No significant cross-reactivity or interference between Rat PTGS2 and analogues was observed.
Sequence Length	604
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Rat Cyclooxygenase-2 (COX-2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for COX-2 elisa kit	Description: This Rat Cyclooxygenase-2 (COX-2) ELISA Kit employs a two-site sandwich ELISA to quantitate PTGS2 in samples. An antibody specific for PTGS2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PTGS2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTGS2 is added to the wells. After washing, Streptavidin 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 PTGS2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Cytochrome c oxidase subunit II is a human protein belongs to cytochrome c oxidase subunit II protein family. It is sometimes confused with the cyclooxygenase enzyme COX-2.Cytochrome c oxidase subunit II, abbreviated CoxII, is the second subunit of cytochrome c oxidase. Cytochrome c oxidase (EC 1.9.3.1) is an oligomeric enzymatic complex which is a component of the respiratory chain and is involved in the transfer of electrons from cytochrome c to oxygen. In eukaryotes this enzyme complex is located in the mitochondrial inner membrane; in aerobic prokaryotes it is found in the plasma membrane. The enzyme complex consists of 3-4 subunits (prokaryotes) to up to 13 polypeptides (mammals). In Leigh's disease, there may be an abnormality or deficiency of cytochrome oxidase.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	126723503
NCBI GeneID	100009248
NCBI Accession #	NP_001075857.1
NCBI GenBank Nucleotide #	NP_001075857.1
UniProt Accession #	O02768
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
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

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.