

## Porcine Cyclooxygenase 2 ELISA Kit | COX2 elisa kit

Porcine Cyclooxygenase 2 ELISA Kit

CATALOG #  
**AAA89206**

REACTIVITY  
**Porcine**

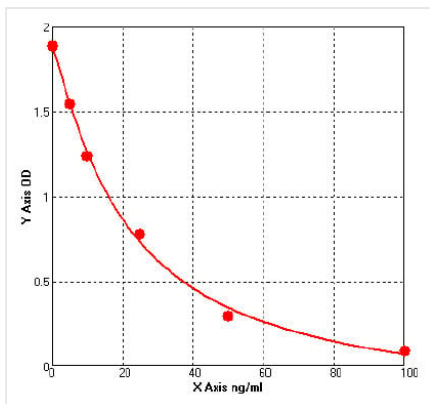
### PRODUCT SYNONYMS

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

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Porcine                                                                                                                                                                                                                                                                                                                                                                                     |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of COX-2. No significant cross-reactivity or interference between COX-2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between COX-2 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 COX2 elisa kit | <p>Intended Uses: This COX-2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of PorcineCOX-2. This ELISA kit for research use only, not for therapeutic or test applications!</p> <p>Principle of the Assay: COX-2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-COX-2 antibody and an COX-2-HRP conjugate. The assay sample and buffer are incubated together with COX-2-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-2 concentration since COX-2 from samples and COX-2-HRP conjugate compete for the anti-COX-2 antibody binding site. Since the number of sites is limited, as more sites are occupied by COX-2 from the sample, fewer sites are left to bind COX-2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The COX-2 concentration in each sample is interpolated from this standard curve.</p> |
| 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.