

Rabbit Prostaglandin E2, PG-E2 ELISA Kit | PG-E2 elisa kit

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CATALOG #
AAA80223

REACTIVITY
Rabbit

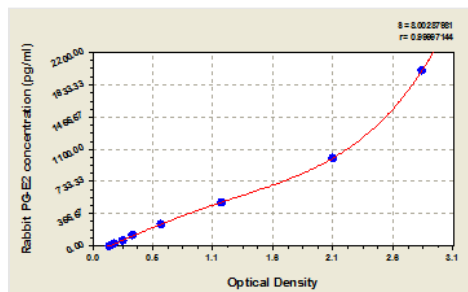
PRODUCT SYNONYMS

Prostaglandin E2; PG-E2; rabbit Prostaglandin E2; PG-E2 ELISA Kit; PG-E2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rabbit
Samples	Serum, plasma, tissue homogenates, Cell lysates
Detection Range	31.25 pg/ml-2000 pg/ml
Sensitivity	7.81 pg/ml
Detection Wavelength	450 nm
Sample Volume	50-100ul
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 PG-E2 elisa kit

Introduction: Prostaglandin E2 (PGE2) is one of the prostaglandins, a group of hormone-like substances that participate in a wide range of body functions such as the contraction and relaxation of smooth muscle, the dilation and constriction of blood vessels, control of blood pressure, and modulation of inflammation. PGE2 is produced by several cell types including macrophages, fibroblasts and some malignant cells and exerts its actions through 4 receptors EP1, EP2, EP3 and EP4. All these receptors are rhodopsin-type receptors with seven transmembrane-spanning domains. However each receptor is coupled to different G proteins and uses different second messenger signaling pathways. Accounting on those receptors coupled to different G proteins, PGE2 has been shown to have both pro and anti-inflammatory actions. It induces vasodilatation by activating cAMP-coupled EP2 receptors on vascular smooth muscle and increases vascular permeability. But as inflammation progresses PGE2 promotes bronchodilatation. PGE2 also inhibits T helper cells type 1 (Th1) cytokines productions such as IL-12, IFN γ , IL-2 and seems to favor Th 2 type of immune response. Although it has also been described that PGE2 decreases IL-4 and IL-5 production as well as IgE production. PGE2 is involved in several pathologies such as periodontal disease and promotes tumor-cell survival.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PGE2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for PGE2 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain PGE2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm $\pm$ 2 nm. The concentration of PGE2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

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/rabbit-elisa-kits/prostaglandin-e2-pg-e2/80223>