

Rabbit PGF2a (Prostaglandin F2alpha) ELISA Kit | PGF2a elisa kit

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CATALOG #
AAA249024

REACTIVITY
Rabbit

PRODUCT SYNONYMS

PGF2a (Prostaglandin F2alpha); Rabbit PGF2a (Prostaglandin F2alpha) ELISA Kit; PGF2a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rabbit
Specificity	This assay has high sensitivity and excellent specificity for detection of PGF2alpha. No significant cross-reactivity or interference between PGF2alpha and analogues is observed.
Sequence Length	359
Assay Type	Competitive ELISA, Coated with Antigen
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	7.813-500pg/ml
Sensitivity	4.688pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PGF2alpha were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PGF2alpha were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a PGF2a ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain standard curve as per experiment by themselves. (N/A: not applicable)

X	pg/ml	0	7.812	15.625	31.25	62.5	125	250	500
Y	OD450	2.062	1.243	0.636	0.38	0.19	0.119	0.088	0.078

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PGF2a elisa kit

Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with PGF2alpha. During the reaction, PGF2alpha in the sample or standard competes with a fixed amount of PGF2alpha on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to PGF2alpha. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. 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. The concentration of PGF2alpha in the samples is then determined by comparing the O D of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506261
NCBI GeneID	5737
NCBI Accession #	NP_000950.1
NCBI GenBank Nucleotide #	NM_000959.4
UniProt Accession #	P43088; Q2KHP3; Q6RYQ6; Q9P1X4; A8K9Y0
Molecular Weight	33,653 Da
NCBI Official Full Name	prostaglandin F2-alpha receptor isoform a
NCBI Official Synonym Full Names	prostaglandin F receptor
NCBI Official Symbol	PTGFR
NCBI Official Synonym Symbols	FP
NCBI Protein Information	prostaglandin F2-alpha receptor
UniProt Protein Name	Prostaglandin F2-alpha receptor
UniProt Gene Name	PTGFR
UniProt Synonym Gene Names	PGF receptor; PGF2-alpha receptor

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/pgf2a-prostaglandin-f2alpha/249024>