

Mouse Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) ELISA Kit | PDE1A elisa kit

Mouse Phosphodiesterase 1A, Calmodulin Dependent (PDE1A)(Sandwich ELISA) ELISA Kit

CATALOG #
AAA152454

REACTIVITY
Mouse

PRODUCT SYNONYMS

Phosphodiesterase 1A; Calmodulin Dependent (PDE1A); Mouse Phosphodiesterase 1A; Calmodulin Dependent (PDE1A)(Sandwich ELISA) ELISA Kit; ELISA Kit for Phosphodiesterase 1A; hCam-1; 61 kDa Cam-PDE; Calcium/calmodulin-dependent 3'; 5'-cyclic nucleotide phosphodiesterase 1A; PDE1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Detects protein (regular version) Reactive with Mouse PDE1A/Phosphodiesterase 1A, Calmodulin Dependent This assay has high sensitivity and excellent specificity for detection of Phosphodiesterase 1A, Calmodulin Dependent (PDE1A). No significant cross-reactivity or interference between Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) and analogues was observed.
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Sensitivity	0.124ng/mL
Assay Time	3h
Sample Size	100uL
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Phosphodiesterase 1A, Calmodulin Dependent (PDE1A). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Phosphodiesterase 1A, Calmodulin Dependent (PDE1A). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Phosphodiesterase 1A, Calmodulin Dependent (PDE1A), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Phosphodiesterase 1A, Calmodulin Dependent (PDE1A) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100uL standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50uL Stop Solution. Read at 450nm immediately.

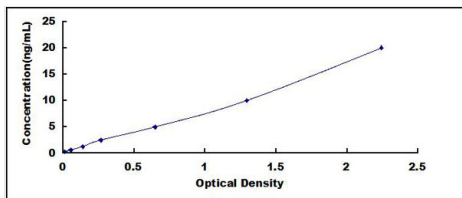
Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life)

Shelf-life: one year

The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

Typical Standard Curve for PDE1A ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	568915799
NCBI GeneID	18573
NCBI Accession #	XP_006498986.1
NCBI GenBank Nucleotide #	XM_006498923.3
UniProt Accession #	Q61481; O35388; E9Q6V1
Molecular Weight	60,685 Da
NCBI Official Synonym Full Names	phosphodiesterase 1A, calmodulin-dependent
NCBI Official Symbol	Pde1a
NCBI Official Synonym Symbols	AI987702; AW125737
NCBI Protein Information	calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1A
UniProt Protein Name	Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1A
UniProt Gene Name	Pde1a
UniProt Synonym Gene Names	Cam-PDE 1A

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/mouse-elisa-kits/phosphodiesterase-1a-calmodulin-dependent-pde1a/152454>