

Human cAMP-specific 3',5'-cyclic phosphodiesterase 4B ELISA Kit | PDE4B elisa kit

Human cAMP-specific 3',5'-cyclic phosphodiesterase 4B ELISA Kit

CATALOG #
AAA98446

REACTIVITY
Human

PRODUCT SYNONYMS

cAMP-specific 3'; 5'-cyclic phosphodiesterase 4B; Human cAMP-specific 3'; 5'-cyclic phosphodiesterase 4B ELISA Kit; PDE4B/DPDE4/PDE32; PDE4B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PDE4B . No significant cross-reactivity or interference between PDE4B and analogues was observed.
Sequence Length	503
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PDE4B 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 PDE4B 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 run of a PDE4B ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.016	0.112	0.219	0.366	0.781	1.269	1.694	2.017

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PDE4B elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-PDE4B antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- PDE4B antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the PDE4B amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of PDE4B can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	661903032
NCBI GeneID	5142
NCBI Accession #	NP_001284371.1
NCBI GenBank Nucleotide #	NM_001297442.1
Molecular Weight	57,709 Da
NCBI Official Full Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4B isoform 6
NCBI Official Synonym Full Names	phosphodiesterase 4B
NCBI Official Symbol	PDE4B
NCBI Official Synonym Symbols	DPDE4; PDEIVB
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 4B
UniProt Protein Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4B
UniProt Gene Name	PDE4B
UniProt Synonym Gene Names	DPDE4
UniProt Entry Name	PDE4B_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/pde4b-human-elisa-kits/camp-specific-35-cyclic-phosphodiesterase-4b/98446>