

General PEA (Pseudomonas Exotoxin A) ELISA Kit | PEA elisa kit

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CATALOG #
AAA249873

REACTIVITY
General

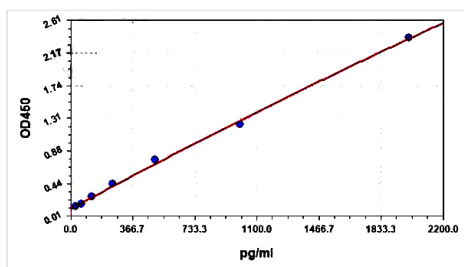
PRODUCT SYNONYMS

PEA (Pseudomonas Exotoxin A); PEA (Pseudomonas Exotoxin A) ELISA Kit; Exotoxin A; ETA; NAD(+)-diphthamide ADP-ribosyltransferase; PE; eta; PA1148; PEA; Pseudomonas Exotoxin A; PEA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	Specifically recognize PEA, no obvious cross reaction with other analogues
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
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



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PEA elisa kit	Background: Pseudomonas Exotoxin A (PE) is a bacterial exotoxin produced by Pseudomonas aeruginosa. This toxin is highly toxic and can cause cell death and tissue damage. PE is a single-chain protein with three functional domains: a cytotoxic domain, a cell membrane-binding domain, and a translocation domain. The cytotoxic domain contains a sequence with ADP-ribosylation activity, which can enter cells and inhibit protein synthesis. The cell membrane-binding domain can bind to certain molecules on the cell surface, facilitating the entry of PE into the cell. The translocation domain helps PE enter the endoplasmic reticulum inside the cell and release its toxin activity. PE mainly causes disease through bacterial infection, such as cancer and AIDS. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti PEA antibody was pre-coated onto the 96-well plate. The biotin conjugated anti PEA antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with PEA conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of PEA in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15596345
NCBI GeneID	877850
NCBI Accession #	NP_249839.1
NCBI GenBank Nucleotide #	NC_002516.2
UniProt Accession #	P11439; Q9I4I7
Molecular Weight	69,284 Da
NCBI Official Full Name	exotoxin A
NCBI Official Symbol	toxA
NCBI Protein Information	exotoxin A
UniProt Protein Name	Exotoxin A
UniProt Gene Name	eta
UniProt Synonym Gene Names	ETA

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/general-elisa-kits/pea-pseudomonas-exotoxin-a/249873>