

Mouse Phospho AKT S473 (p-AKT) ELISA Kit | p-AKT elisa kit

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CATALOG #
AAA277229

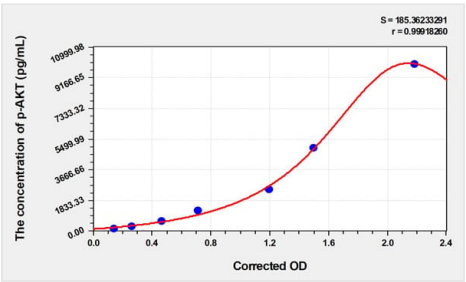
REACTIVITY
Mouse

PRODUCT SYNONYMS

Phospho AKT S473 (p-AKT); Mouse Phospho AKT S473 (p-AKT) ELISA Kit; p-AKT; p-AKT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Assay Type	Sandwich
Samples	tissue homogenates, cell lysates and other biological fluids
Detection Range	156.25-10000pg/mL
Sensitivity	49.6pg/mL
Standard	10000pg/mL
Assay Length	3.5h
Precision	Intra-assay Precision (Precision within an assay): CV%<8% Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision. Inter-assay Precision (Precision between assays): CV%<10% Three samples of known concentration were tested in forty separate assays to assess inter-assay precision.
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 Phospho AKT S473 (p-AKT). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Phospho AKT S473 (p-AKT). 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 Phospho AKT S473 (p-AKT), 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 450 nm +/- 10 nm. The concentration of Phospho AKT S473 (p-AKT) in the samples is then determined by comparing the OD of the samples to the standard curve.
Standard Curve	Matrices listed below were spiked with certain level of recombinant p-AKT and the recovery rates were calculated by comparing the measured value to the expected amount of p-AKT in samples. Matrix Recovery range Average serum (n=5) 78-95% 86 EDTA plasma (n=5) 89-105% 97 Heparin plasma (n=5) 86-99% 92
Recovery Rate	The linearity of the kit was assayed by testing samples spiked with appropriate concentration of p-AKT and their serial dilutions. The results were demonstrated by the percentage of calculated concentration to the expected. Matrix 1:21:41:81:16 serum (n=5) 91-102% 79-91% 89-103% 82-95% EDTA plasma (n=5) 79-92% 87-103% 79-96% 92-105% Heparin plasma (n=5) 85-92% 96-103% 87-98% 95-106%



Standard Curve (Sample)

ADDITIONAL INFORMATION

Product Categories/Family for p-AKT elisa kit

Enzyme & Kinase

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/mouse-elisa-kits/phospho-akt-s473-p-akt/277229>