

Mouse phospho-Insulin Receptor, beta Subunit (pTyr1162/1163) ELISA Kit

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CATALOG #
AAA277207

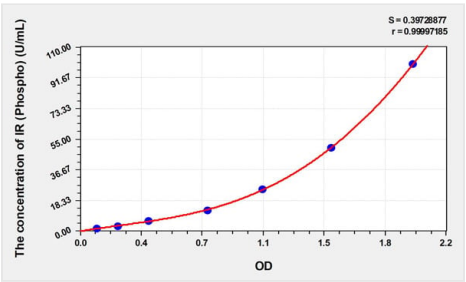
REACTIVITY
Mouse

PRODUCT SYNONYMS

phospho-Insulin Receptor; beta Subunit (pTyr1162/1163); Mouse phospho-Insulin Receptor; beta Subunit (pTyr1162/1163) ELISA Kit; p-IR; beta Subunit (pTyr1162/1163) elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Assay Type	Sandwich
Samples	serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.57-100U/mL
Sensitivity	0.71U/mL
Standard	100U/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-Insulin Receptor, beta Subunit (pTyr1162/1163). Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to phospho-Insulin Receptor, beta Subunit (pTyr1162/1163). 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-Insulin Receptor, beta Subunit (pTyr1162/1163), 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-Insulin Receptor, beta Subunit (pTyr1162/1163) 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 IR (Phospho) [pY1162/1163] and the recovery rates were calculated by comparing the measured value to the expected amount of IR (Phospho) [pY1162/1163] in samples. Matrix Recovery range Averages serum (n=5) 82-98% 90 EDTA plasma (n=5) 82-94% 88 Heparin plasma (n=5) 80-97% 88
Recovery Rate	The linearity of the kit was assayed by testing samples spiked with appropriate concentration of IR (Phospho) [pY1162/1163] 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) 83-97% 84-99% 95-102% 88-103% EDTA plasma (n=5) 95-104% 82-96% 92-103% 90-99% Heparin plasma (n=5) 89-97% 85-94% 79-96% 85-99%



Standard Curve (Sample)

ADDITIONAL INFORMATION

Product Categories/Family for
phospho-Insulin Receptor, beta Subunit
(pTyr1162/1163) elisa kit

Signal transduction; Endocrinology; Autoimmunity

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://www.aaabiotech.com/mouse-elisa-kits/phospho-insulin-receptor-beta-subunit-tyr1162-1163/277207>