

Human Protein tyrosine kinase ELISA Kit | PTK elisa kit

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CATALOG #
AAA84727

REACTIVITY
Human

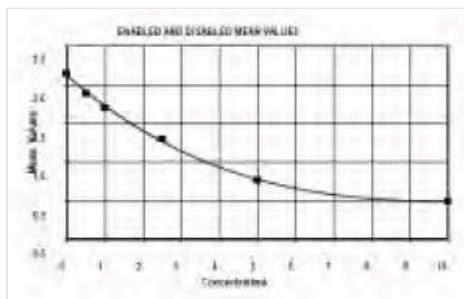
PRODUCT SYNONYMS

Protein tyrosine kinase; Human Protein tyrosine kinase ELISA Kit; PTK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PTK elisa kit

For Samples: Cell culture fluid, body fluid, tissue homogenate, serum and blood plasma

Intended Uses: This PTK ELISA kit is intended for laboratory research use only. The stop solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of PTK in the sample, this PTK ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versus PTK concentration. The concentration of in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Principle of the Assay: The coated well immunoenzymatic assay for the quantitative measurement of PTK utilizes a monoclonal anti-PTK antibody and an PTK-HRP conjugate. The assay sample and buffer are incubated together with PTK-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the PTK concentration since PTK from samples and PTK-HRP conjugate compete for the anti-PTK antibody binding site. Since the number of sites is limited, as more sites are occupied by PTK from the sample, fewer sites are left to bind PTK-HRP conjugate. Standards of known PTK concentrations are run concurrently with the samples being assayed and a standard curve is plotted relating the intensity of the color (Optical Density) to the concentration of PTK. The PTK concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	914204
NCBI GeneID	640
Molecular Weight	57,706 Da
NCBI Official Full Name	protein tyrosine kinase
NCBI Official Synonym Full Names	BLK proto-oncogene, Src family tyrosine kinase
NCBI Official Symbol	BLK
NCBI Official Synonym Symbols	MODY11
NCBI Protein Information	tyrosine-protein kinase Blk; p55-Blk; b lymphocyte kinase; B lymphoid tyrosine kinase; BLK nonreceptor tyrosine kinase
UniProt Protein Name	Tyrosine-protein kinase Blk
UniProt Gene Name	BLK
UniProt Entry Name	BLK_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.

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Online datasheet: <https://stage.aaabiotech.com/ptk-human-elisa-kits/protein-tyrosine-kinase/84727>