

Rat P38 Mitogen-Activated Protein Kinase ELISA Kit | MAPK elisa kit

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CATALOG #
AAA101784

REACTIVITY
Rat

PRODUCT SYNONYMS

P38 Mitogen-Activated Protein Kinase; Rat P38 Mitogen-Activated Protein Kinase ELISA Kit; MAPK; MAPK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of MAPK . No significant cross-reactivity or interference between MAPK and analogues was observed.
Sequence Length	365
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	1.25-80ng/ml
Sensitivity	0.75ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level MAPK 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 MAPK 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 operation of a MAPK ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	ng/ml	0	1.25	2.5	5	10	20	40	80
Y	OD450	0.159	0.212	0.26	0.385	0.629	1.025	1.618	2.312

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MAPK elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-MAPK antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- MAPK antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRPStreptavidin 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 MAPK amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of MAPK can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	2360960
NCBI GeneID	5603
Molecular Weight	28,779 Da
NCBI Official Full Name	p38 mitogen-activated protein kinase
NCBI Official Synonym Full Names	mitogen-activated protein kinase 13
NCBI Official Symbol	MAPK13
NCBI Official Synonym Symbols	SAPK4; PRKM13; MAPK 13; MAPK-13; p38delta
NCBI Protein Information	mitogen-activated protein kinase 13
UniProt Protein Name	Mitogen-activated protein kinase 13
UniProt Gene Name	MAPK13
UniProt Synonym Gene Names	PRKM13; SAPK4; MAP kinase 13; MAPK 13; MAP kinase p38 delta
UniProt Entry Name	MK13_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/mapk-rat-elisa-kits/p38-mitogen-activated-protein-kinase/101784>