

Human Mitogen-Activated Protein Kinase 14 (MAPK14) ELISA Kit | MAPK14 elisa kit

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CATALOG #
AAA331881

REACTIVITY
Human

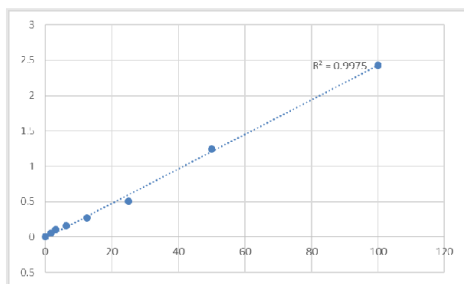
PRODUCT SYNONYMS

Mitogen-Activated Protein Kinase 14 (MAPK14); Human Mitogen-Activated Protein Kinase 14 (MAPK14) ELISA Kit; MAPK14; RP1-179N16.5; CSBP1; CSBP2; CSPB1; EXIP; Mxi2; PRKM14; PRKM15; RK; SAPK2A; p38; p38ALPHA; Csais binding protein; MAP kinase Mxi2; MAX-interacting protein 2; cytokine suppressive anti-inflammatory drug; MAPK14 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Mitogen-activated protein kinase 14 (MAPK14) ELISA Kit has high sensitivity and excellent specificity for detection of Human MAPK14. No significant cross-reactivity or interference between Human MAPK14 and analogues was observed.
Sequence Length	360
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Mitogen-activated protein kinase 14 (MAPK14) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MAPK14 elisa kit	Description: This Human Mitogen-activated protein kinase 14 (MAPK14) ELISA Kit employs a two-site sandwich ELISA to quantitate MAPK14 in samples. An antibody specific for MAPK14 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MAPK14 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAPK14 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MAPK14 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Mitogen-activated protein kinase 14 is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503069
NCBI GeneID	1432
NCBI Accession #	NP_001306.1
NCBI GenBank Nucleotide #	NP_001306.1
UniProt Accession #	Q16539
NCBI Official Full Name	mitogen-activated protein kinase 14 isoform 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase 14
NCBI Official Symbol	MAPK14
NCBI Official Synonym Symbols	RK; p38; CSBP; EXIP; Mxi2; CSBP1; CSBP2; CSPB1; PRKM14; PRKM15; SAPK2A; p38ALPHA
NCBI Protein Information	mitogen-activated protein kinase 14
UniProt Protein Name	Mitogen-activated protein kinase 14
UniProt Gene Name	MAPK14
UniProt Synonym Gene Names	CSBP; CSBP1; CSBP2; CSPB1; MXI2; SAPK2A; MAP kinase 14; MAPK 14; CSAID-binding protein; CSBP; MAP kinase p38 alpha; SAPK2a
UniProt Entry Name	MK14_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.