

# AB-PK739

## p38a-pT180+pY182 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-serine/threonine kinase p38a MAPK (MAPK14)



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Mitogen-activated protein-serine kinase p38 alpha; Mitogen-activated protein kinase 14
<b>Alias:</b>	CRK1; CSAID binding protein; CSBP; CSBP1; CSBP2; CSPB1; Cytokine suppressive anti-inflammatory drug binding protein; Kinase p38-alpha; MAPK14; PRKM15; p38a MAPK; SAPK2A; Mxi2; CCDS4815.1; ENSG00000112062
<b>UniProt ID:</b>	Q16539
<b>Sequence Predicted Mass (KDa):</b>	41.493 (360 AA; Q16539-2); 41.293 (360 AA; Q16539); 35.453 (307 AA; Q16539-4); 34.092 (297 AA; Q16539-3); 29.388 (256 AA; Q16539-5)
<b>Observed SDS-PAGE Mass (KDa):</b>	38-43

### Immunogen

<b>Antibody Immunogen Source:</b>	Human p38a MAPK (MAPK14) sequence peptide Cat. No.: PE-04ADS75
<b>Antibody Immunogen Sequence:</b>	DEM(pT)G(pY)(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues D177 to Y182; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Thr-180+Tyr-182

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	0.5 mg/ml
<b>Lot Number:</b>	141003
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
<b>Storage Conditions and Stability:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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### Applications

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other vertebrates; Phosphosite is highly conserved in diverse species
<b>Antibody Positive Controls:</b>	Very strong immunoreactivity with immunogen peptide on dot blots.
<b>Overall Antibody Specificity:</b>	Medium-High selectivity
<b>Antibody Cross Reactivities:</b>	No immunoreactivity with recombinant human p38a, p38b, p38d or p38g. High background with antibody in HepG2 cells. In Jurkat cells, phenylarsine oxide (PAO) increases detection of 15 KDa protein.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit [www.kinexusproducts.ca](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)