



Anti-MAPK11 (Mitogen-activated protein kinase 11) Phospho Polyclonal Antibody

Category: Phospho-Polyclonal Antibody

Catalog #: Thr180/Tyr182 dual Phospho-AB4C051(Phosph Site: 180T, 182Y)

Antigen Synonym: PRKM11, SAPK2 (Stress-activated protein kinase 2), p38-2 (Mitogen-activated protein kinase p38 beta), p38b (MAP kinase p38 beta)

Species Reactivity: Human, Mouse

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to middle amino acid residues of human MAPK11 (Mitogen-activated protein kinase 11)

Description: MAPK11 (Mitogen-activated protein kinase 11) is involved in a signal transduction pathway that is activated by changes in the osmolarity of the extracellular environment, by cytokines, or by environmental stress. MAPK11 (Mitogen-activated protein kinase 11) phosphorylates preferentially transcription factor ATF2. MAPK11 (Mitogen-activated protein kinase 11) is activated by phosphorylation on threonine and tyrosine by MKK6. MAPK11 is inhibited by pyridinyl-imidazole related compounds. Highest levels of MAPK11 expression is in the brain and heart. MAPK11 is also expressed in the placenta, lung, liver, skeletal muscle, kidney and pancreas. The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases. MAPK11 is dually phosphorylated on Thr-180 and Tyr-182, which activates the enzyme. MAPK11 belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family and MAP kinase subfamily. MAPK11 contains 1 protein kinase domain.

Reference:

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Enslin,H., et al, J. Biol. Chem. 273 (3), 1741-1748 (1998)
Goedert,M., et al, EMBO J. 16 (12), 3563-3571 (1997)
Stein,B., et al, J. Biol. Chem. 272 (31), 19509-19517 (1997)
Collins,J.E., et al, Genome Biol. 5 (10), R84 (2004)
Rikova,K., et al, Cell 131 (6), 1190-1203 (2007)

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