

Anti-MK04 antibody



Description	Unconjugated Rabbit polyclonal to MK04
Model	STJ190195
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human MK04 protein.
Immunogen Region	410-490aa
Gene ID	5596
Gene Symbol	MAPK4
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	MK04 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	High expression in heart and brain.
Purification	MK04 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Mitogen-activated protein kinase 4 MAP kinase 4 MAPK 4 Extracellular signal-regulated kinase 4 ERK-4 MAP kinase isoform p63 p63-MAPK
Molecular Weight	64 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6878 OMIM:176949
Alternative Names	Mitogen-activated protein kinase 4 MAP kinase 4 MAPK 4 Extracellular signal-regulated kinase 4 ERK-4 MAP kinase isoform p63 p63-MAPK
Function	Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK4/MAPK4 is phosphorylated at Ser-186 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK4/MAPK4. May promote entry in the cell cycle .
Sequence and Domain Family	The FRIEDE motif is required for docking MAPKAPK5. In contrast to classical MAPKs, the TXY motif within the activation loop is replaced by the SEG motif, whose phosphorylation activates the MAP kinases.
Cellular Localization	Cytoplasm Nucleus. Translocates to the cytoplasm following interaction with MAPKAPK5.
Post-translational Modifications	Phosphorylated at Ser-186 by PAK1, PAK2 and PAK3 resulting in catalytic activation. Phosphorylated by MAPKAPK5 at other sites.