

Summary

Production Name	PRAK Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	MAPKAPK5 MAPKAPK5; PRAK; MAP kinase-activated protein kinase 5; MAPK-activated protein
Alternative Names	kinase 5; MAPKAP kinase 5; MAPKAP-K5; MAPKAP-5; MK-5; MK5; p38-regulated/activated protein kinase; PRAK
Gene ID	8550.0
SwissProt ID	Q8IW41.The antiserum was produced against synthesized peptide derived from human MAPKAPK5. AA range:148-197

Application

Dilution Ratio	WB 1:500-2000
Molecular Weight	60kD

Product Name: PRAK Rabbit Polyclonal Antibody
Catalog #: APRab16455



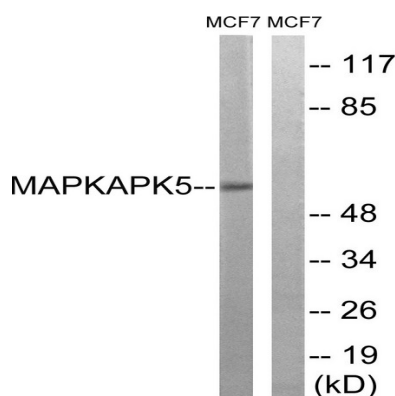
Background

The protein encoded by this gene is a tumor suppressor and member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. The encoded protein is found in the nucleus but translocates to the cytoplasm upon phosphorylation and activation. This kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites. Two alternately spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Nov 2012], catalytic activity: ATP + a protein = ADP + a phosphoprotein., enzyme regulation: p38 alpha and beta-dependent phosphorylation increases its activity. Activated by stress-related extracellular stimuli; such as H₂O₂, arsenite, anisomycin TNF alpha and also PMA and the calcium ionophore A23187; but to a lesser extent. In vitro, activated by SQSTM1., function: Mediates stress-induced small heat shock protein 27 phosphorylation., PTM: Phosphorylated on Thr-182; which is the regulatory phosphorylation site and is located on the T-loop/loop 12., similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family., similarity: Contains 1 protein kinase domain., subcellular location: Also observed in the nucleus., subunit: Interacts with SQSTM1., tissue specificity: Expressed ubiquitously.,

Research Area

MAPK_ERK_Growth; MAPK_G_Protein;

Image Data



Western blot analysis of lysates from MCF-7 cells, using MAPKAPK5 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.