

Product Name: PRAK (phospho Thr182) Rabbit Polyclonal Antibody**Catalog #: APRab05302**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse
Conjugation	Unconjugated
Modification	Phosphorylated
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000
Molecular Weight	60kDa

Antigen Information

Gene Name	MAPKAPK5 MAPKAPK5; PRAK; MAP kinase-activated protein kinase 5; MAPK-activated protein kinase 5;
Alternative Names	MAPKAP kinase 5; MAPKAP-K5; MAPKAPK-5; MK-5; MK5; p38-regulated/activated protein kinase; PRAK
Gene ID	8550.0
SwissProt ID	Q8IW41
Immunogen	The antiserum was produced against synthesized peptide derived from human MAPKAPK5 around the phosphorylation site of Thr182. AA range:148-197

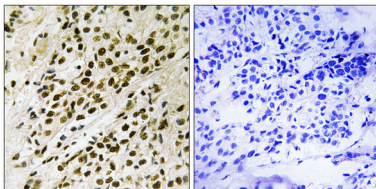
Background

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.,

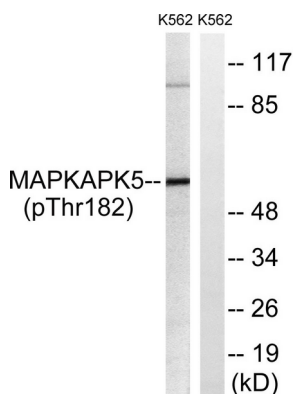
Research Area

MAPK_ERK_Growth; MAPK_G_Protein;

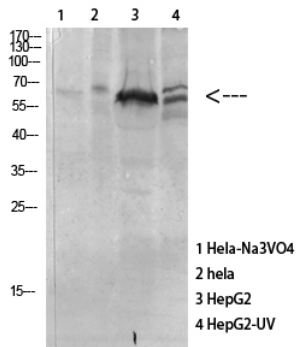
Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using MAPKAPK5 (Phospho-Thr182) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells treated with Na₃VO₄ 0.3nM 40', using MAPKAPK5 (Phospho-Thr182) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Antibody diluted at 1:1000. Secondary antibody was diluted at 1:20000