

MAPKAPK5 (Phospho Thr182) Rabbit pAb

CatalogNo: YP0820 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 60kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:5000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human MAPKAPK5 around the phosphorylation site of Thr182. AA range:148-197

Specificity

Phospho-PRAK (T182) Polyclonal Antibody detects endogenous levels of PRAK protein only when phosphorylated at T182. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):LMtPQ

Target Information

Gene name MAPKAPK5

Protein Name MAP kinase-activated protein kinase 5

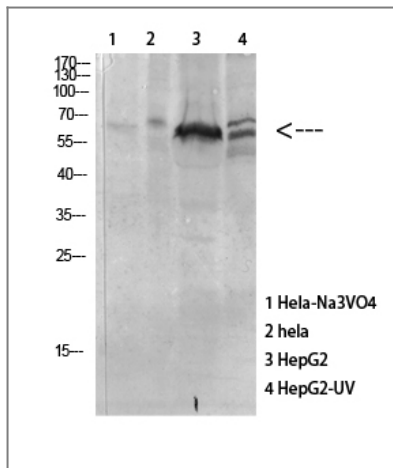
Organism	Gene ID	UniProt ID
Human	8550;	Q8IW41;
Mouse	17165;	O54992;

Cellular Localization Cytoplasm. Nucleus. Translocates to the cytoplasm following phosphorylation and activation. Interaction with ERK3/MAPK6 or ERK4/MAPK4 and phosphorylation at Thr-182 , activates the protein kinase activity , followed by translocation to the cytoplasm. Phosphorylation by PKA/PRKACA at Ser-115 also induces nuclear export.

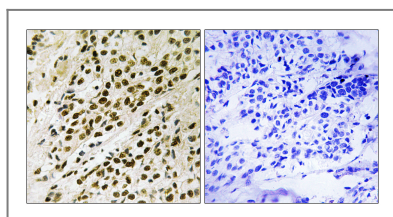
Tissue specificity Expressed ubiquitously.

Function 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. ,

Validation Data



Western Blot analysis of various cells using Antibody diluted at 1:1000.
Secondary antibody (catalog#:RS0002) was diluted at 1:20000



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

Contact information

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Please scan the QR code to access additional product information:
MAPKAPK5
(Phospho Thr182)
Rabbit pAb

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