

MAPKAPK5 Mouse mAb

CatalogNo: YM0533

| Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- WB,IHC,IF,ELISA

MW

- 54kD (Calculated)

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:200-1:1000

ELISA 1:10000

IF 1:50-200

| 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.

| Basic Information

Clonality

Monoclonal

| Immunogen Information

Immunogen

Purified recombinant fragment of PRAK expressed in E. Coli.

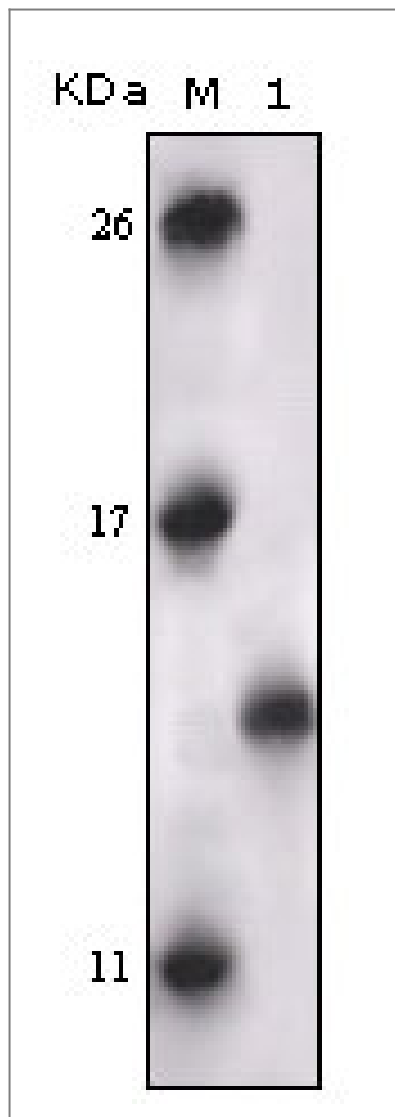
Specificity

PRAK Monoclonal Antibody detects endogenous levels of PRAK protein.

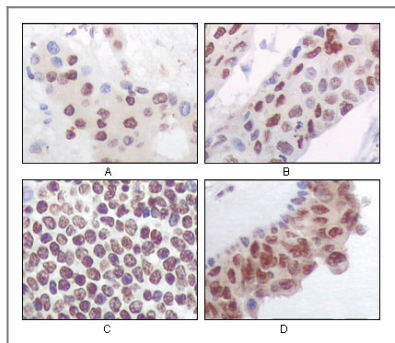
| Target Information

Gene name	MAPKAPK5		
Protein Name	MAP kinase-activated protein kinase 5		
	Organism	Gene ID	UniProt ID
	Human	8550 ;	Q8IW41 ;
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 H(2)O(2), 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 using PRAK Monoclonal Antibody against truncated PRAK recombinant protein.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma (A), esophagus carcinoma (B), normal spleen tissue (C), breast carcinoma (D), showing nuclear and cytoplasmic localization with DAB staining using PRAK Monoclonal Antibody.

Contact information

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MAPKAPK5 Mouse mAb

