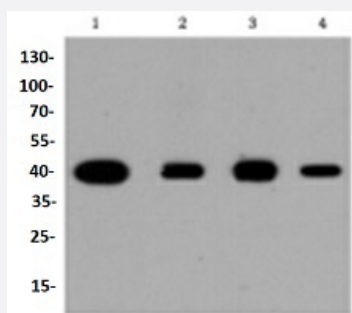


RecomAb™

# MAPK14 recombinant monoclonal antibody

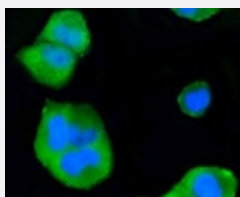
Catalog # RAB02695      Size 100 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of Lane1:Hela whole cell lysate Lane2:NIH/3T3 whole cell lysate Lane3:PC12 whole cell lysate Lane4:Jurkat whole cell lysate with MAPK14 recombinant monoclonal antibody (Cat # RAB02695) at 1:1000 dilution.



### Immunocytochemistry

Immunocytochemical staining of HeLa cells using MAPK14 recombinant monoclonal antibody (Cat # RAB02695)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton \*100/PBS.

## Specification

Product Description	Rabbit recombinant monoclonal antibody raised against MAPK14.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant MAPK14.
Theoretical MW (kDa)	42
Reactivity	Human, Mouse, Rat
Specificity	This antibody detects endogenous levels of p38 and does not cross-react with related proteins.

Form	Liquid
Purification	Protein A purification
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Western Blot (1:1000-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.2 (50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane1:Hela whole cell lysate Lane2:NIH/3T3 whole cell lysate Lane3:PC12 whole cell lysate Lane4:Jurkat whole cell lysate with MAPK14 recombinant monoclonal antibody (Cat # RAB02695) at 1:1000 dilution.

- Immunocytochemistry

Immunocytochemical staining of HeLa cells using MAPK14 recombinant monoclonal antibody (Cat # RAB02695)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton \*100/PBS.

## Gene Info — MAPK14

Entrez GeneID	<a href="#">1432</a>
Protein Accession#	<a href="#">Q16539</a>
Gene Name	MAPK14
Gene Alias	CSBP1, CSBP2, CSPB1, EXIP, Mxi2, PRKM14, PRKM15, RK, SAPK2A, p38, p38ALPHA
Gene Description	mitogen-activated protein kinase 14
Omim ID	<a href="#">600289</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various environmental stresses and proinflammatory cytokines. The activation requires its phosphorylation by MAP kinase kinases (MKKs), or its autophosphorylation triggered by the interaction of MAP3K7IP1/TAB1 protein with this kinase. The substrates of this kinase include transcription regulator ATF2, MEF2C, and MAX, cell cycle regulator CDC25B, and tumor suppressor p53, which suggest the roles of this kinase in stress related transcription and cell cycle regulation, as well as in genotoxic stress response. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq]

**Other Designations**

Csaids binding protein|MAP kinase Mxi2|MAX-interacting protein 2|cytokine suppressive anti-inflammatory drug binding protein|p38 MAP kinase|p38 mitogen activated protein kinase|p38alpha Exip|stress-activated protein kinase 2A

## Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Fc epsilon RI signaling pathway](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)
- [VEGF signaling pathway](#)

## Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)

- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Narcolepsy](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)