

## Anti-MAPK14 Antibody (6V701)

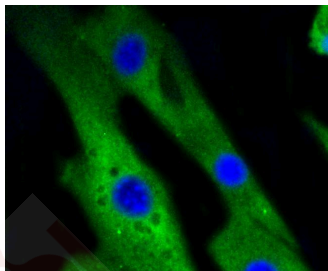
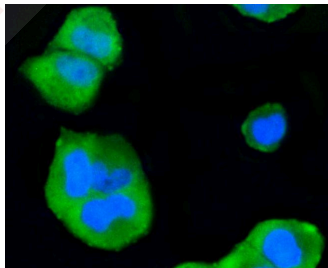
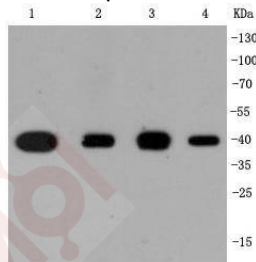
### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 38 kDa.
Clone:	6V701
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of p38 on different cell lysates using anti-p38 antibody at 1/1,000 dilution. Positive control: Lane 1: HeLa, Lane 2: NIH/3T3, Lane 3: PC-12, Lane 4: Jurkat.
2. ICC staining p38 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining p38 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Application:	ICC/IF,WB
Recommended	WB: 1:1000-5000; ICC/IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q16539

Synonyms: MAP kinase p38 alpha; Mitogen-activated protein kinase 14; CSAID-binding protein; CSBP1; P38 MAPK; CSBP2; Stress-activated protein kinase 2a; MAPK 14; SAPK2a; EC 2.7.11.24; MAX-interacting protein 2; MAP kinase 14; MAP kinase MXI2; Mitogen-activated protein kinase p38 alpha; CSBP; MXI2; Cytokine suppressive anti-inflammatory drug-binding protein

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### Research Background

MAP (mitogen-activated protein) kinases play a significant role in many biological processes, including cell adhesion and spreading, cell differentiation and apoptosis. p38 $\alpha$ , p38 $\beta$  and p38 $\gamma$ , also known as MAPK14, MAPK11 and MAPK12, respectively, each contain one protein kinase domain and belong to the MAP kinase family. Expressed in different areas throughout the body with common expression patterns in heart, p38 proteins use magnesium as a cofactor to catalyze the ATP-dependent phosphorylation of target proteins. Via their catalytic activity, p38 $\alpha$ , p38 $\beta$  and p38 $\gamma$  are involved in a variety of events throughout the cell, including signal transduction pathways, cytokine production and cell proliferation and differentiation. The p38 proteins are subject to phosphorylation on Thr and Tyr residues, an event which is thought to activate the phosphorylated protein.

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