

## Anti-Phospho-Thr180/Tyr182 p38 MAPK Antibody

Product Data Sheet · P/N 74122 Rev 01 · Reissued 2026-09-19 (layout only)

| Product code | Pack size           |
|--------------|---------------------|
| P46201-100   | 100 µL              |
| Host Species | Rabbit (Polyclonal) |
| Mr (kDa)     | 39                  |

### Description

The three Mitogen-Activated Protein Kinases (MAPKs) are evolutionarily conserved protein kinases that control a vast array of cellular processes. p38 MAPK is one of these kinases and it is activated by both inflammatory cytokines and by stress (Johnson and Lapadat, 2002; Shi and Gaestel, 2002). The p38 MAPK is thought to be particularly important in diseases like asthma and autoimmunity but it also plays important roles in the stress response of the nervous system (Philip and Armstead, 2003;

Ying et al., 2002). Like the other MAPKs, p38 is activated by a dual specificity kinase that phosphorylates Thr180 and Tyr182 (Lin et al., 1995).

### Immunogen

Phosphopeptide corresponding to amino acid residues surrounding the phospho-Thr180 and phospho-Tyr182 of rat p38 MAPK. Specific for the ~39k p38 MAPK protein phosphorylated at Thr180/Tyr182.

### Species Reactivity

The antibody has been directly tested for reactivity in Western blots with human tissue. It is anticipated that the antibody will also react with bovine, canine, chicken, mouse, non- human primates, rat and zebra fish based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

### Physical State

Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol

### Purification Method

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

### Recommended Antibody Dilutions

WB: 1:1000

IHC: 1:250

### Storage/Stability

Stable at -20 °C for at least 1 year.

For long term storage -20 °C is recommended

### Shipping Conditions

**Domestic:** Blue Ice

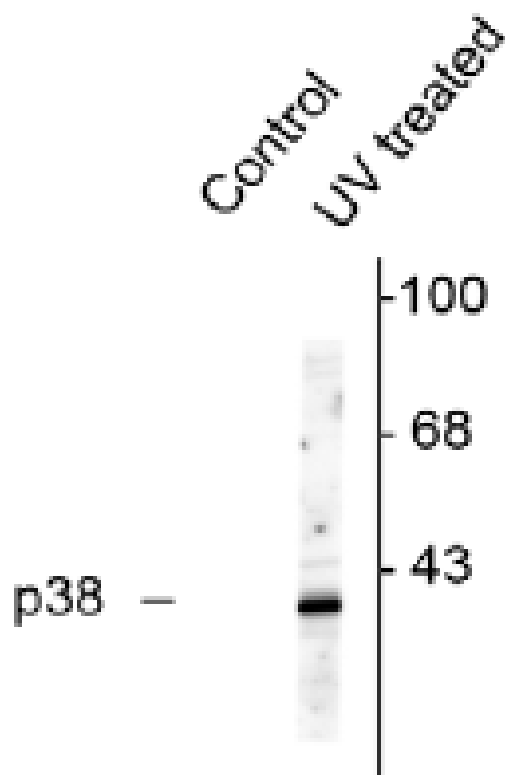
**International:** Blue Ice or Dry Ice

### References

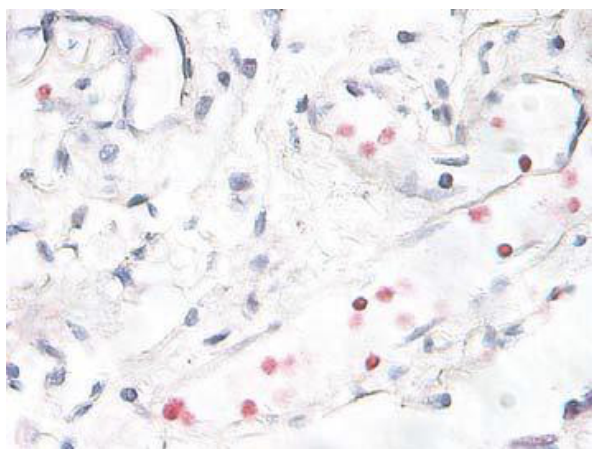
- 1) Johnson GL et al. (2002) Science 298:1911-1912.
- 2) Lin A et al. (1995) Science 268:286-290.
- 3) Philip S et al. (2003) Brain Res 979:98-103.

4) Shi Y et al. (2002) Biol Chem 383:1519-1536.

5) Ying SW et al. (2002) J Neurosci 22:1532-1540.



Immunostaining Human breast cancer tissue showing p38 when phosphorylated at Thr180/Tyr182 in red. Photo courtesy of Patsy Ruegg.



Western Blot HeLa cell lysates that had been treated with UV or untreated (Control) showing specific immunolabeling of the ~39k p38 MAPK protein phosphorylated at Thr180/Tyr182.

For research use or further manufacturing only. Not for use in diagnostic procedures, or for human or animal consumption.