**Phospho-p38 MAPK-T180 pAb**

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<th>Catalog No.</th>
<th>AP0056</th>
<th>Category</th>
<th>Phosphorylated Antibodies</th>
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<td>Applications</td>
<td>WB, IF</td>
<td>Observed MW</td>
<td>38kDa</td>
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<td>Cross-reactivity</td>
<td>Human, Rat</td>
<td>Calculated MW</td>
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**Immunogen Information**

- **Immunogen**: A synthetic phosphorylated peptide around T180 of human p38 MAPK (NP_620581.1).
- **Gene ID**: 1432
- **Swiss prot**: Q16539
- **Synonyms**: MAPK14; CSBP; CSBP1; CSBP2; CSBP1; EXIP; Mxi2; PRKM14; PRKM15; RK; SAPK2A; p38; p38ALPHA; mitogen-activated protein kinase 14

**Product Information**

- **Source**: Rabbit
- **Isotype**: IgG
- **Purification method**: Affinity purification
- **Storage**: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

**Background**

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.

**Recommended Dilutions**

- **WB**: 1:500 - 1:2000
- **IF**: 1:50 - 1:200

Western blot analysis of extracts of PC-12 cells, using Phospho-p38 MAPK-T180 antibody (AP0056) at 1:2000 dilution. PC-12 cells were treated by UV for 15-30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25μg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 105.

Immunofluorescence analysis of U2OS cells using Phospho-p38 MAPK-T180 antibody (AP0056). Blue: DAPI for nuclear staining.