



## P38 MAPK (Phospho-Tyr182) Antibody

#11253

**Catalog Number:** 11253-1, 11253-2

**Amount:** 50µg/50µl, 100µg/100µl

**Swiss-Prot No. :** Q16539

**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

**Storage/Stability:** Store at -20°C/1 year

**Immunogen:** The antiserum was produced against synthesized phosphopeptide derived from human p38 MAPK around the phosphorylation site of tyrosine 182 (T-G-Y<sup>P</sup>-V-A).

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

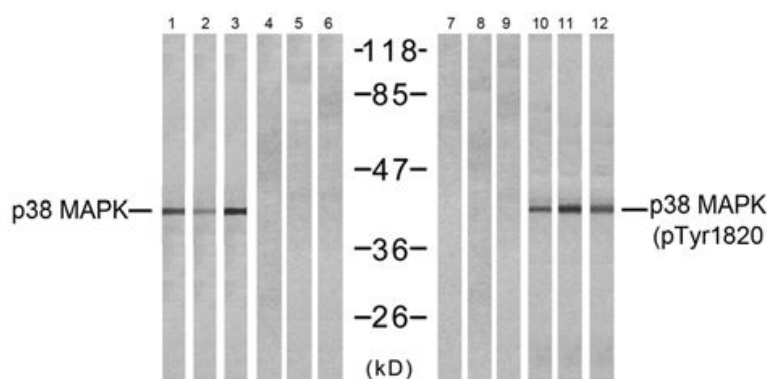
**Specificity/Sensitivity:** p38 MAPK (phospho-Tyr182) antibody detects endogenous levels of p38 MAPK only when phosphorylated at tyrosine 182

**Reactivity:** Human, Mouse, Rat

### Applications:

Predicted MW: 43kd

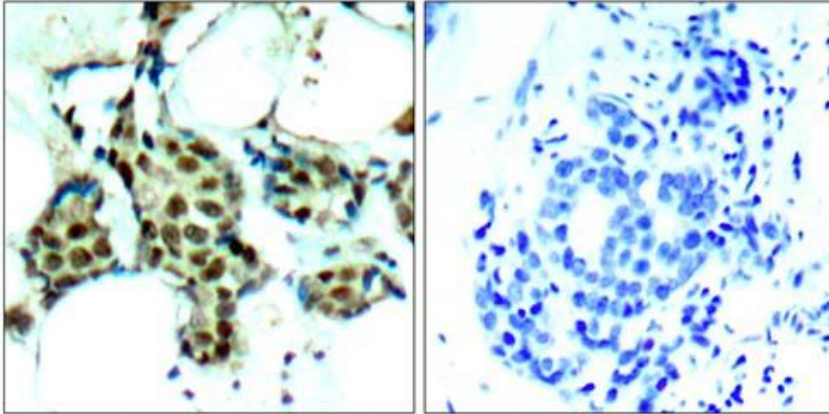
WB: 1:500~1:1000 IHC: 1:50~1:100



UV        - - - - - + + + +

Peptide   - - - + + + - - - - -

Western blot analysis of extracts from NIH-3T3 (Line 1, 4, 7 and 10) and cos7 (Line 2, 5, 8 and 11 and K562 (Line 3, 6, 9 and 12) cells, untreated or treated with UV (20min), using P38 MAPK (Ab-182) antibody (#21245, Lane 1, 2, 3, 4, 5 and 6) and P38 MAPK (phospho- Tyr182) antibody (#11253, Lane 7, 8, 9, 10, 11 and 12).



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using p38 MAPK (phospho-Tyr182) antibody (#11253).

### **Background :**

Responds to activation by environmental stress, pro-inflammatory cytokines and lipopolysaccharide (LPS) by phosphorylating a number of transcription factors, such as ELK1 and ATF2 and several downstream kinases, such as MAPKAPK2 and MAPKAPK5. Plays a critical role in the production of some cytokines, for example IL-6. May play a role in stabilization of EPO mRNA during hypoxic stress. Isoform Mxi2 activation is stimulated by mitogens and oxidative stress and only poorly phosphorylates ELK1 and ATF2. Isoform Exip may play a role in the early onset of apoptosis.

### **References:**

Ming Zheng, et al.(2005) The FASEB Journal. 19: 109-111

Bernt van den et al.(2001) Blink Immunology, 166: 582-587

Arshad Rahman, et al. (2004) Am J Physiol Lung Cell Mol Physiol 287: L1017-L1024