

35-1234: Polyclonal Antibody to P38 MAPK (Phospho-Tyr182)

Clonality :	Polyclonal
Application :	WB,IHC
Reactivity :	Human,Mouse,Rat
Gene :	MAPK14
Gene ID :	1432
Uniprot ID :	Q16539
Format :	Purified
Alternative Name :	MAPK2, MAPKAPK-2, MAPKAPK2
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of tyrosine 182 (T-G-Y(p)-V-A) derived from Human P38 MAPK.

Description

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. 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 Osamu Yoshino, et al. (2003) Endocrinology & Metabolism Vol. 88: 2236-2241

Product Info

Amount :	50 μ l / 100 μ l
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 43kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

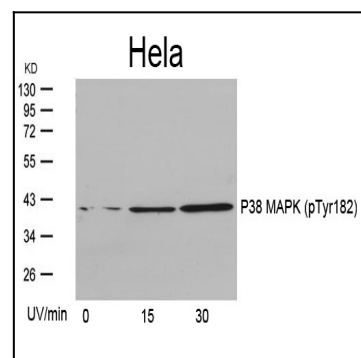


Figure 1: Western blot analysis of extracts from HeLa cells untreated or treated with UV for the indicated times, using P38 MAPK(Phospho-Tyr182) Antibody 35-1234 .

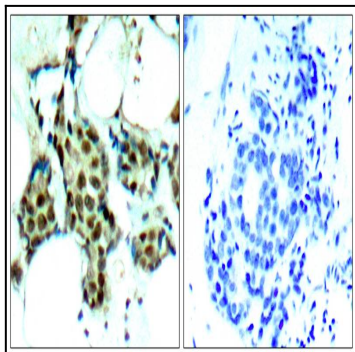


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using P38 MAPK(Phospho-Tyr182) Antibody 35-1234 (left) or the same antibody preincubated with blocking peptide(right).

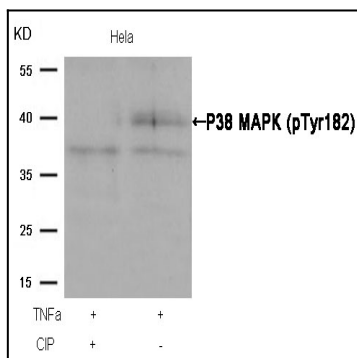


Figure 3: Western blot analysis of extracts from HeLa cells, treated with TNFα or calf intestinal phosphatase (CIP), using P38 MAPK (Phospho-Tyr182) Antibody 35-1234 .