

Phospho-Thr180/Tyr182 p38 MAPK Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1020

Specification

Phospho-Thr180/Tyr182 p38 MAPK Antibody - Product Information

Application	WB, IHC
Primary Accession	P70618
Reactivity	Human
Predicted	Bovine, Chicken, Mouse, Monkey, Rat, Zebrafish
Host	Rabbit
Clonality	polyclonal
Calculated MW	39 KDa

Phospho-Thr180/Tyr182 p38 MAPK Antibody - Additional Information

Gene ID	70496
Gene Name	MAPK14
Other Names	
Mitogen-activated protein kinase 14, MAP kinase 14, MAPK 14, CRK1, Mitogen-activated protein kinase p38 alpha, MAP kinase p38 alpha, Mapk14, Csbp1, Csbp2	

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr180/Tyr182 conjugated to KLH.

Dilution

WB~~ 1:1000
IHC~~ 1:250

Format

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

Antibody Specificity

Specific for the ~39k p38 MAPK protein phosphorylated at Thr180/Tyr182. Immunolabeling is blocked by preadsorption of the antibody with the phosphopeptide used as antigen but not by the corresponding dephosphopeptide.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Thr180/Tyr182 p38 MAPK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

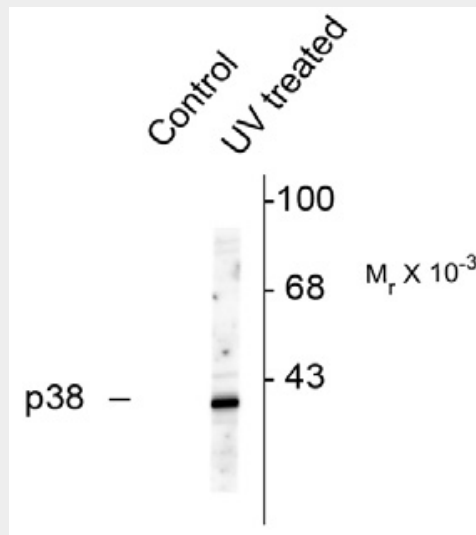
Blue Ice

Phospho-Thr180/Tyr182 p38 MAPK Antibody - Protocols

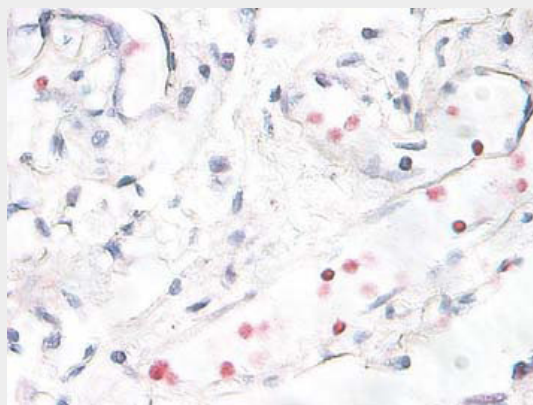
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Thr180/Tyr182 p38 MAPK Antibody - Images



Western blot of 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.



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

Phospho-Thr180/Tyr182 p38 MAPK Antibody - Background

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).

Phospho-Thr180/Tyr182 p38 MAPK Antibody - References

Johnson GL, Lapadat R (2002) Mitogen-activated protein kinase pathways mediated by ERK, JNK, and p38 protein kinases. *Science* 298:1911-1912.

Lin A, Minden A, Martinetto H, Claret F-X, Lange-Carter C, Mercurio F, Johnson GL, Karin M (1995) Identification of a dual specificity kinase that activates the Jun kinases and p38-Mpk2. *Science* 268:286-290.

Philip S, Armstead WM (2003) Differential role of PTK, ERK and p38 MAPK in superoxide impairment of NMDA cerebrovasodilation. *Brain Res* 979:98-103.

Shi Y, Gaestel M (2002) In the cellular garden of forking paths: How p38 MAPKs signal for downstream assistance. *Biol Chem* 383:1519-1536.

Ying SW, Futter M, Rosenblum K, Webber MJ, Hunt SP, Bliss TVP, Bramham CR (2002) Brain-derived neurotrophic factor induces long-term potentiation in intact adult hippocampus: Requirement for ERK activation coupled to CREB and upregulation of Arc synthesis. *J Neurosci* 22:1532-1540.

Phospho-Thr180/Tyr182 p38 MAPK Antibody - Citations

- [The close association between IL-12Rβ2 and p38MAPK, and higher expression in the early stages of NSCLC, indicates a good prognosis for survival.](#)