Recombinant Phospho-p38 MAPK (Thr180, Tyr182) Monoclonal Antibody

catalog number: AN300364L

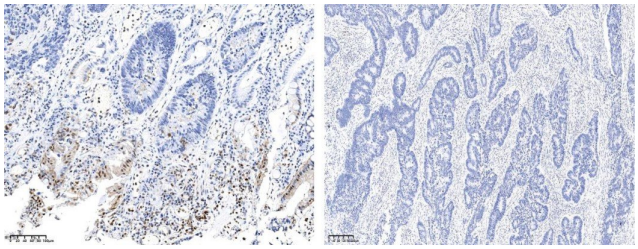
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

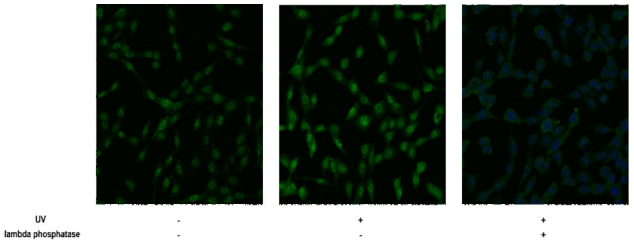
Reactivity	Human
Immunogen	A synthetic phosphopeptide corresponding to residues around Thr180, Tyr182 of human Phospho-p38 MAPK.
Host	Rabbit
Isotype	IgG
Clone	B286
Purification	Protein A
Buffer	10 mM sodium HEPES, 150 mM NaCl, 100 μg/mL protein protectant, 50% glycerol, pH 7.5

Applications	Recommended Dilution
WB	1:1000-1:10000
IHC-P	1:200-1:1000
ICC/IF	1:20-1:100

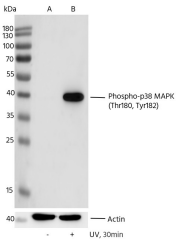
Data

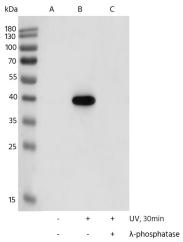


Immunohistochemistry of paraffin-embedded human carcinoma of sigmoid tissue using p38 MAPK (Thr180, Tyr182) Monoclonal Antibody at dilution of 1:500.



Immunofluorescence analysis of Phospho-p38 MAPK (Thr180, Tyr182) in serum-starved NIH-3T3 cells, untreated (left), treated with UV (30mins) (middle) or treated with UV (30mins) and lambda phosphatase (right). Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Mouse Phospho-p38 MAPK (Thr180, Tyr182) monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was mainly localized to Nucleus.





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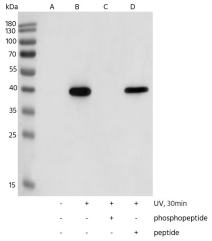
Western blot analysis of extracts from serum-starved NIH-3T3, untreated(line A) or treated with UV (30min; +)(line B), using Phospho-p38 MAPK (Thr180, Tyr182) rabbit monoclonal Antibody at 1:1000 dilution. (upper) or Anti-Actin Antibody, Chimeric Rabbit Monoclonal at 1:50000 dilution(lower).

Observed-MW:40 kDa

Calculated-MW:41 kDa



Western blot analysis of extracts from serum-starved NIH-3T3, untreated (line A); treated with UV (30min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-p38 MAPK (Thr180, Tyr182) rabbit monoclonal Antibody at 1:1000 dilution.

Observed-MW:40 kDa

Calculated-MW:41 kDa

Western blot analysis of extracts from serum-starved NIH-3T3, untreated (line A); treated with UV (30min; +) (line B); treated with UV and λ-phosphatase (line C) using Phospho-p38 MAPK (Thr180, Tyr182) rabbit monoclonal Antibody at 1:1000 dilution.

Observed-MW:40 kDa

Calculated-MW:41 kDa

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

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.

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