# NEUROMICS /



## **Data Sheet** ρ38α

Catalog Number: RA15053 Host: Rabbit

Affinity Purified Antibody **Product Type: Species** Human, Rat, Mouse

Reactivity: Purified, E. coli-derived Lyophilized from a 0.2 µm filtered solution Immunogen Format:

recombinant human p38 alpha in phosphate-buffered saline (PBS) with Sequence: mitogen-activated protein kinase 5% trehalose.

(MAPK14) alpha (GenBank accession #Q16539). Reconstitute in 100 µL of PBS containing Reconstitution:

0.02% NaN3.

Western Blot-0.1 - 0.25 µg/mL Applications:

Immunohistochemistry-1.7 - 5 μg/mL.

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six

months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

## **Application Notes**

### Specificity

The antibody detects endogenous human, mouse and rat p38a. The antibody does not detect recombinant p38b, p38y or p38δ.

## Immunohistochemistry

This antibody will detect p38α in cells and tissues. The working dilution is 1.7 - 5 µg/mL.

#### Western Blot

Protocol

**Blotting Buffer** 25 mM Tris, pH 7.4 0.15 M NaCl

0.1% Tween® 20

**Blocking Solution** 

5% nonfat dry milk in blotting buffer

Adjust pH to 7.4

**Antibody Solution** 

5% nonfat dry milk in blotting buffer

Adjust pH to 7.4

- Transfer the electrophoresed proteins to Immobilon filters (Millipore) and incubate the membrane for 1 hour at room temperature in blocking solution.
- 2. Incubate the membrane overnight at 4° C in antibody solution containing 0.1 - 0.25 µg/mL rabbit anti human/rat/mouse p38α.
- 3. Wash the membrane at room temperature for 1 hour with 5 or more changes of blotting buffer. Changing the membrane containers often reduces background.
- Incubate the membrane at room temperature for 1 hour in antibody solution containing a 1:2,000 dilution of HRPconjugated anti-rabbit IgG (Amersham).

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- 5. Wash the membrane for 1 hour with 5 or more changes of blotting buffer.
- Detect with ECL Reagent (Amersham).

#### **Cell lysates for Western blottings**

To prepare total cell lysates, cells are solubilized in hot 2x SDS gel sample buffer (20 mM dithiothreitol, 6% SDS, 0.25 M Tris, pH 6.8, 10% glycerol, 10 mM NaF and bromophenyl blue) at 2 x 106 - 1 x 107 cells per mL. The extracts are heated in a boiling water bath for 5 minutes and then sonicated with a probe sonicator with 3 - 4 bursts of 5 - 10 seconds each. Samples are diluted with 1x SDS sample buffer to the desired concentration.

Tween is a registered trademark of ICI Americas.

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