

Datasheet for 600-401-C90**p38 MAPK phospho T180/phospho Y182 Antibody****Overview**

Description:	Anti-p38 MAPK pT180/pY182 (RABBIT) Antibody - 600-401-C90
Item No.:	600-401-C90
Size:	100 µL
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	p38 MAPK pT180/pY182 Antibody detects phosphorylated p38 MAPK protein. 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. 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. Like the other MAPKs, p38 is activated by a dual specificity kinase that phosphorylates Thr180 and Tyr182. Anti-p38 MAPK pT180/pY182 Antibody is ideal for investigators involved in Signal Transduction and Apoptosis research.
Synonyms:	Mitogen-activated protein kinase 14, MAP kinase 14, MAPK 14, CRK1, Mitogen-activated protein kinase p38 alpha, MAP kinase p38 alpha
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Mapk14
Reactivity:	Human
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-p38 MAPK pT180/pY182 Antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Thr180/Tyr182.
Purity/Specificity:	Anti-p38 MAPK pT180/pY182 Antibody is directed against p38 MAPK phosphorylated at T180 and Y182. antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Reactivity is expected from the following species based on 100% sequence homology: bovine, canine, chicken, mouse, non-human primates, rat and zebra fish.
Relevant Links:	• NCBI - NM_031020 • UniProtKB - P70618 • GeneID - 70496

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-p38 MAPK pT180/pY182 Antibody is tested for use in Western Blotting and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 39kDa in size corresponding to p38 MAPK protein phosphorylated at Thr180/Tyr182 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:250
WB:	1:1000

Formulation

Physical State:	Liquid
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

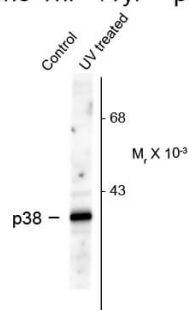
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Anti-Phospho-Thr¹⁸⁰/Tyr¹⁸² p38 MAPK



Western blot of HeLa cell lysates that had been treated with +/- UV(30 min.) showing phosphospecific immunolabeling of the ~39k p38 MAPK protein phosphorylated at Thr¹⁸⁰ and Tyr¹⁸².

Western Blot

Western Blot of Rabbit anti-p38 MAPK Thr180-Tyr182 antibody. Lane 1: HeLa cell lysate untreated (Control). Lane 2: HeLa cell lysate UV treated. Load: 10 µg per lane. Primary antibody: p38 MAPK Thr180-Tyr182 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 39 kDa for p38 MAPK Thr180-Tyr182. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.