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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-P38 Antibody

Rabbit Anti-Human p38 Polyclonal
Catalog No. SPC-172

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

p38 Antibody

Description

Rabbit Anti-Human p38 Polyclonal

Species Reactivity

Dog, Human, Monkey, Mouse, Rat, Bovine, Chicken, Guinea Pig (Cavia porcellus), Hamster, Pig, Rabbit, Sheep

Applications

WB, IHC, ICC/IF, IP

Antibody Dilution

WB (1:1000), ICC/IF (1:100), IP (1:250); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Human

Immunogen

A 20 residue synthetic peptide based on the human p38 with the cysteine residue added and coupled to KLH

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Peptide Affinity Purified

Clonality

Polyclonal

Specificity

Detects ~43kDa.

Cite This Product

Rabbit Anti-Human p38 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-172)

Certificate Of Analysis

A 1:1000 dilution of SPC-172 was sufficient for detection of p38 in 20 µg of HeLa cell lysate by ECL immunoblot analysis.

Biological Description

Alternative Names

CSAID Binding protein 1 Antibody, CSBP1 Antibody, CSBP2 Antibody, EXIP Antibody, MAP kinase MXI2 Antibody, MAPkinase p38alpha Antibody, MAPK14 Antibody, p38 ALPHA Antibody, p38 MAP kinase Antibody, p38 mitogen activated protein kinase Antibody, RK Antibody, SAPK 2A Antibody, Stress activated protein kinase 2A Antibody

Research Areas

Cancer, Cell Signaling, Phosphorylation, Post-translational Modifications

Cellular Localization

Cytoplasm, Nucleus

Accession Number

NP_001306.1

Gene ID

1432

Swiss Prot

Q16539

Scientific Background

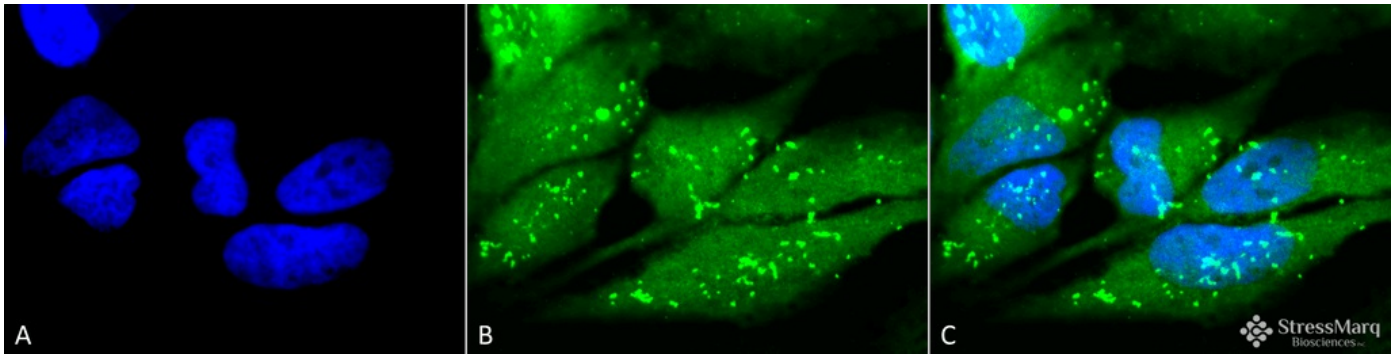
The MAPK (mitogen activated protein kinase) comprises a family of ubiquitous praline-directed, protein-serine/threonine kinases which signal transduction pathways that control intracellular events including acute responses to hormones and major developmental changes in organisms (1). This super family consists of stress activated protein kinases (SAPKs); extracellular signal-regulated kinases (ERKs); and p38 kinases, each of which forms a separate pathway (2). The kinase members that populate each pathway are sequentially activated by phosphorylation. Upon activation, p38 MAPK/SAPK2α translocates into the nucleus where it phosphorylates one or more nuclear substrates, effecting transcriptional changes and other cellular processes involved in cell growth, division, differentiation, inflammation, and death (3). Specifically p38 always acts as a pro-apoptotic factor with its activation leading to the release of cytochrome c from mitochondria and cleavage of caspase 3 and its downstream effector, PARP (4). p38 MAPK is activated by a variety of chemical stress inducers including hydrogen peroxide, heavy metals, anisomycin, sodium salicylate, LPS, and biological stress signals such as tumor necrosis factor, interleukin-1, ionizing and UV irradiation, hyperosmotic stress and chemotherapeutic drugs (5). As a result, p38 alpha has been widely validated as a target for inflammatory disease including rheumatoid arthritis, COPD and psoriasis (6) and has also been implicated in cancer, CNS and diabetes (7).

References

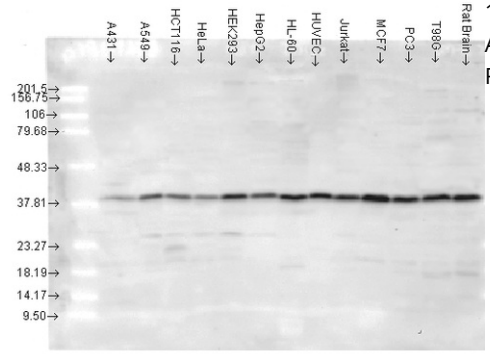
1. Pearson G., et al (2001) Endocrine Reviews 22 (2): 153-183.
2. Fan Y., et al (2007) Mol. Cells 23 (1): 30-38.
3. Han J., et al. (1994) Science 265: 808-811.

4. Van L. A., et al. (2004) Faseb J. 18: 1946?1948.
5. Deng et al. (2003) Cell 115: 61-70.
6. Salojin K.V., et al. (2006) J Immunol. 176 (3):1899-907.
7. Medicherla S., et al. (2006) J Pharmacol Exp Ther. 318(1): 99-107.

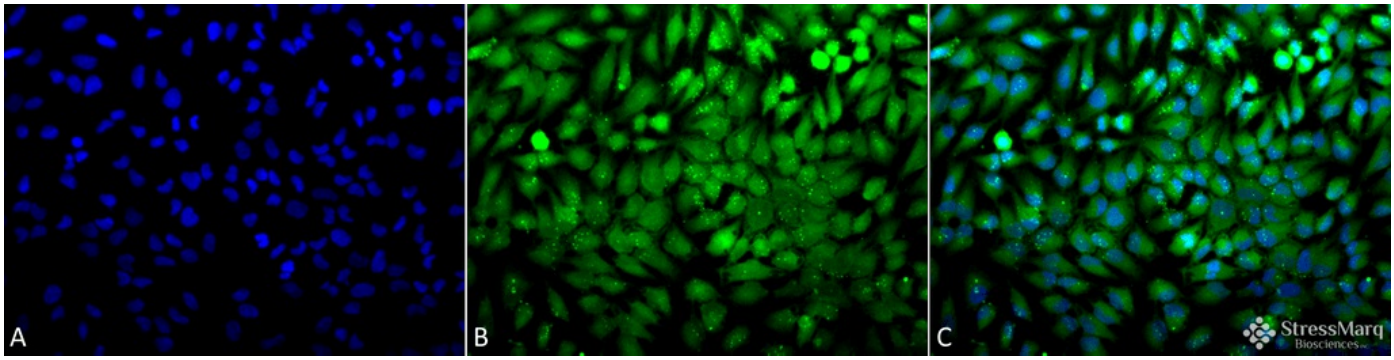
Product Images



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-p38 Polyclonal Antibody (SPC-172). Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-p38 Polyclonal Antibody (SPC-172) at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Mitochondrion. Cytoplasm. Nucleus. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-p38 Antibody. (C) Composite.



Western blot analysis of Human cancer cell lines showing detection of p38 protein using Rabbit Anti-p38 Polyclonal Antibody (SPC-172). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-p38 Polyclonal Antibody (SPC-172) at 1:4000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-p38 Polyclonal Antibody (SPC-172). Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-p38 Polyclonal Antibody (SPC-172) at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Mitochondrion. Cytoplasm. Nucleus. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-p38 Antibody. (C) Composite.

Product Citations (1)

Western Blot

Atf6? deficiency suppresses microglial activation and ameliorates pathology of experimental autoimmune encephalomyelitis.

Ta, H.M. et al. -2016 J Neurochem. [Epub ahead of print]

PubMed ID: 27333444 **Reactivity:** Mouse **Applications:** Western Blot

Reviews

There are no reviews yet.