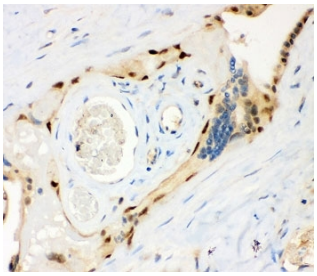
MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody (R31681)

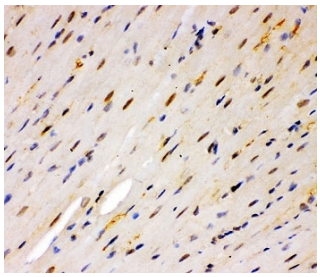
Catalog No.	Formulation	Size
R31681	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

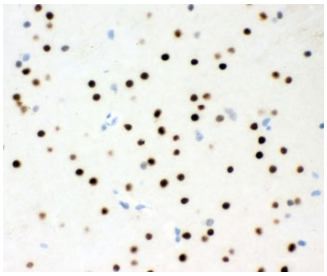
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	9252
Localization	Nuclear + cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunocytochemistry: 0.5-1ug/ml Immunofluorescence: 5ug/ml
Limitations	This MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody is available for research use only.



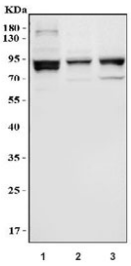
MSK1 Antibody Human Placenta IHC. Immunohistochemistry analysis of FFPE human placental tissue using MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody. Heat induced antigen retrieval was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes prior to staining. Nuclear staining is observed in placental cells, consistent with the role of MSK1 as a MAPK-activated kinase involved in transcriptional regulation. These results support the use of MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody for studying RPS6KA5 signaling, phosphorylation pathways and nuclear kinase activity.



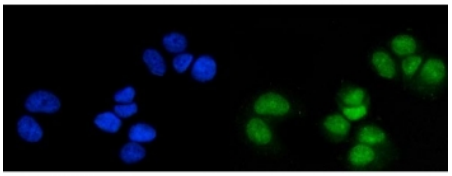
MSK1 Antibody Mouse Heart IHC. Immunohistochemistry analysis of FFPE mouse heart tissue using MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody. Heat induced antigen retrieval was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes prior to staining. Nuclear staining is observed in cardiac cells, consistent with the role of MSK1 as a MAPK-regulated kinase involved in transcriptional control and stress response signaling. These results support the use of MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody for studying RPS6KA5 expression, phosphorylation pathways and cellular signaling regulation.



MSK1 Antibody Rat Brain IHC. Immunohistochemistry analysis of FFPE rat brain tissue using MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody. Heat induced antigen retrieval was performed by boiling tissue sections in pH 8 EDTA buffer for 20 minutes prior to staining. Strong nuclear staining is observed in neuronal cells, consistent with the role of MSK1 as a MAPK-activated kinase involved in transcriptional regulation and neuronal signaling. These results support the use of MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody for studying RPS6KA5 expression, phosphorylation pathways and stress response signaling.



MSK1 Antibody Human, Rat and Mouse WB. Western blot analysis of human HEL cell lysate, mouse brain tissue lysate and rat brain tissue lysate using MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody. Lane 1: human HEL cells; Lane 2: mouse brain; Lane 3: rat brain. A specific band is detected at approximately 90 kDa, consistent with the expected molecular weight of MSK1. These results support the use of MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody for studying RPS6KA5 expression, MAPK signaling pathways and phosphorylation-dependent cellular regulation.



MSK1 Antibody T-47D Cell IF. Immunofluorescence analysis of FFPE human T-47D cells using MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody. Heat induced antigen retrieval was performed by steaming sections in pH 6 citrate buffer for 20 minutes. MSK1 expression is shown in green with DAPI nuclear counterstain shown in blue. Strong nuclear staining is observed, consistent with the role of MSK1 as a MAPK-activated kinase involved in transcriptional regulation. These results support the use of MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody for studying RPS6KA5 signaling, kinase activity and nuclear regulatory pathways.

Description

MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody detects a nuclear serine/threonine kinase encoded by the RPS6KA5 gene. MSK1 functions downstream of ERK and p38 MAPK signaling pathways, where it helps transmit extracellular signals generated by growth factors, stress responses and inflammatory stimuli into changes in nuclear activity. Following activation, MSK1 phosphorylates key regulatory proteins involved in transcription, chromatin organization and cellular response pathways. Through these functions, MSK1 serves as an important connection between MAPK pathway activation and gene expression regulation.

MSK1 regulates multiple downstream targets involved in signal-dependent transcription and cellular adaptation. Important substrates include CREB and histone H3, allowing MSK1 activity to influence transcription factor function and chromatin-associated signaling mechanisms. Because these pathways control responses to diverse cellular conditions, a MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody is useful for researchers studying phosphorylation pathways, kinase signaling networks and mechanisms controlling nuclear regulation.

Research involving MSK1 has demonstrated important roles in several biological processes, including inflammatory signaling, neuronal activity, cellular stress responses and cancer-related pathways. As a downstream component of

MAPK signaling cascades, MSK1 contributes to the regulation of genes associated with proliferation, differentiation and adaptive cellular responses. Analysis of MSK1 expression and localization provides insight into how cells convert kinase pathway activation into specific transcriptional outcomes.

MSK1 also represents an important target for studying the relationship between intracellular signaling and epigenetic regulation. By modifying chromatin-associated proteins, MSK1 helps coordinate signaling pathways with changes in gene accessibility and transcriptional activity. These functions make MSK1 valuable in research areas focused on signal transduction, chromatin biology, neurological pathways and cellular communication mechanisms.

NSJ Bioreagents offers MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody products for researchers investigating MAPK signaling, transcription regulation and phosphorylation-dependent pathways. These antibodies support applications including Western blot, immunohistochemistry, immunofluorescence and flow cytometry analysis of MSK1 expression and localization. MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody provides a valuable tool for studying RPS6KA5 function, nuclear kinase activity and cellular signaling regulation.

Researchers studying MSK1 signaling may also be interested in our RPS6KA5 Antibody / MAPK Signaling Kinase Antibody page, featuring a Protein Microarray Validated antibody for investigating MAPK pathway regulation, phosphorylation signaling and transcriptional control mechanisms.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the MSK1 Antibody / Mitogen and Stress Activated Kinase 1 Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 540-665) was used as the immunogen for this MSK1 antibody.

Storage

After reconstitution, the MSK1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

RPS6KA5 antibody, MSK 1 antibody, Ribosomal Protein S6 Kinase Alpha 5 antibody, RSK Like Protein Kinase antibody, Nuclear Kinase MSK1 antibody, MAPK Activated Protein Kinase antibody

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