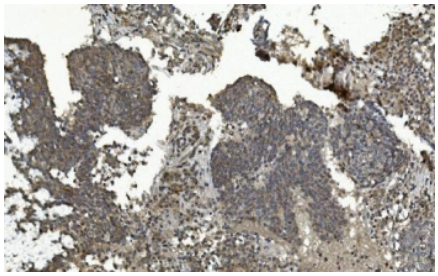
MAPK7 Antibody / ERK5 (RQ5740)

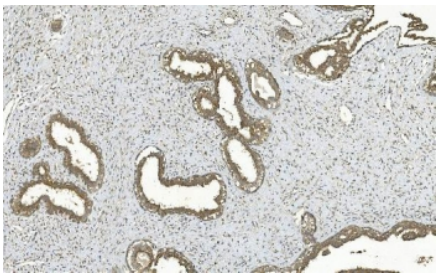
Catalog No.	Formulation	Size
RQ5740	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

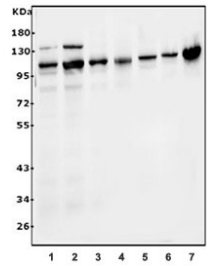
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q13164
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This MAPK7 antibody is available for research use only.



IHC staining of FFPE human lung cancer with MAPK7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human breast cancer with MAPK7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) K562, 2) HEK293, 3) HeLa, 4) monkey COS-7, 5) rat brain, 6) mouse brain, 7) mouse NIH 3T3 lysate with MAPK7 antibody. Expected molecular weight: 80-115 kDa.

Description

Mitogen-activated protein kinase 7 also known as MAP kinase 7 is an enzyme that in humans is encoded by the MAPK7 gene. 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 specifically activated by mitogen-activated protein kinase kinase 5 (MAP2K5/MEK5). It is involved in the downstream signaling processes of various receptor molecules including receptor type kinases, and G protein-coupled receptors. In response to extracelluar signals, this kinase translocates to cell nucleus, where it regulates gene expression by phosphorylating, and activating different transcription factors. Four alternatively spliced transcript variants of this gene encoding two distinct isoforms have been reported.

Application Notes

Optimal dilution of the MAPK7 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids K22-P816) was used as the immunogen for the MAPK7 antibody.

Storage

After reconstitution, the MAPK7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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