

## ARG40804 anti-MEK5 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes MEK5
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MEK5
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-190 of Human MEK5 (NP_660143.1).
Conjugation	Un-conjugated
Alternate Names	MEK 5; HsT17454; MAPK/ERK kinase 5; PRKMK5; EC 2.7.12.2; MAPKK 5; MEK5; MAPKK5; Dual specificity mitogen-activated protein kinase kinase 5; MAP kinase kinase 5

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	BT-474	
Observed Size	~ 50 kDa	

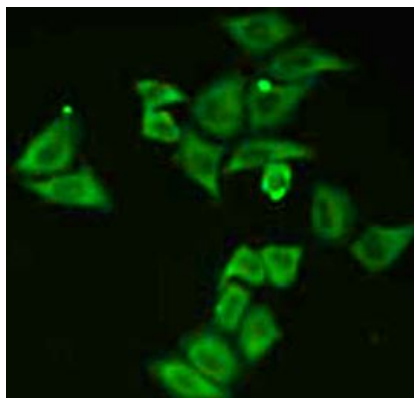
### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

## Bioinformation

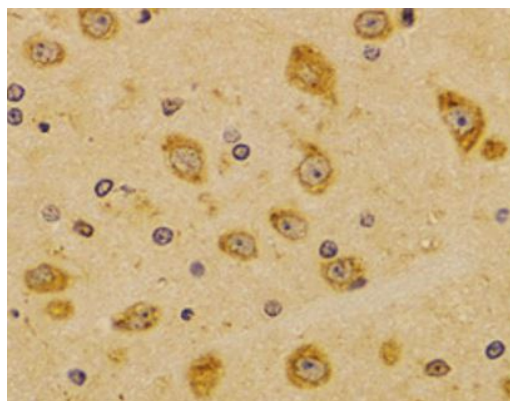
Gene Symbol	MAP2K5
Gene Full Name	mitogen-activated protein kinase kinase 5
Background	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been described. [provided by RefSeq, May 2011]
Function	Acts as a scaffold for the formation of a ternary MAP3K2/MAP3K3-MAP3K5-MAPK7 signaling complex. Activation of this pathway appears to play a critical role in protecting cells from stress-induced apoptosis, neuronal survival and cardiac development and angiogenesis. [UniProt]
Calculated Mw	50 kDa
PTM	Activated by phosphorylation on Ser/Thr by MAP kinase kinase kinases.  Yersinia yopJ may acetylate Ser/Thr residues, preventing phosphorylation and activation, thus blocking the MAPK signaling pathway. [UniProt]

## Images



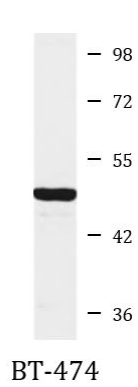
ARG40804 anti-MEK5 antibody ICC/IF image

Immunofluorescence: MCF7 cells stained with ARG40804 anti-MEK5 antibody.



ARG40804 anti-MEK5 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain stained with ARG40804 anti-MEK5 antibody at 1:100 dilution.



#### ARG40804 anti-MEK5 antibody WB image

Western blot: 25 µg of BT-474 cell lysate stained with ARG40804 anti-MEK5 antibody at 1:500 dilution.