

ARG43716 anti-ERK3 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ERK3
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ERK3
Species	Human
Immunogen	Synthetic peptide of Human ERK3.
Conjugation	Un-conjugated
Alternate Names	ERK3; HsT17250; p97-MAPK; EC 2.7.11.24; ERK-3; PRKM6; MAP kinase 6; MAP kinase isoform p97; p97MAPK; Mitogen-activated protein kinase 6; Extracellular signal-regulated kinase 3; MAPK 6

Application Instructions

Application table	Application	Dilution
	IHC-P	1:20 - 1:100
	IP	1:10 - 1:30
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	NIH-3T3; HeLa	
Observed Size	90-95 kDa	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	50 mM Tris-Glycine (pH 7.4), 150 mM NaCl, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
Concentration	Batch dependent
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.

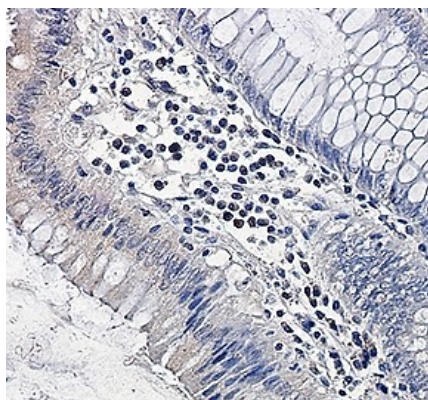
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MAPK6
Gene Full Name	mitogen-activated protein kinase 6
Background	The protein encoded by this gene is a member of the Ser/Thr protein kinase family, and is most closely related to mitogen-activated protein kinases (MAP kinases). MAP kinases also known as extracellular signal-regulated kinases (ERKs), are activated through protein phosphorylation cascades and act as integration points for multiple biochemical signals. This kinase is localized in the nucleus, and has been reported to be activated in fibroblasts upon treatment with serum or phorbol esters. [provided by RefSeq, Jul 2008]
Function	Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK3/MAPK6 is phosphorylated at Ser-189 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK3/MAPK6. May promote entry in the cell cycle (By similarity). [UniProt]
Calculated Mw	83 kDa
PTM	Phosphorylated at Ser-189 by PAK1, PAK2 and PAK3 resulting in catalytic activation. Phosphorylated by MAPKAPK5 at other sites. Ubiquitination at Met-1 leads to degradation by the proteasome pathway. [UniProt]
Cellular Localization	Cytoplasm. Nucleus. Translocates to the cytoplasm following interaction with MAPKAPK5. [UniProt]

Images



ARG43716 anti-ERK3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human colon cancer tissue stained with ARG43716 anti-ERK3 antibody at 1:20 dilution.



ARG43716 anti-ERK3 antibody WB image

Western blot: HeLa cell lysates stained with ARG43716 anti-ERK3 antibody at 1:1000 dilution.



ARG43716 anti-ERK3 antibody WB image

Western blot: NIH3T3 cell lysates stained with ARG43716 anti-ERK3 antibody at 1:1000 dilution.