

Product datasheet

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ARG58998 anti-ERK3 phospho (Ser189) antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes ERK3 phospho (Ser189)

Tested Reactivity Hu

Predict Reactivity Ms, Rat, Chk

Tested Application IHC-P
Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name ERK3

Species Human

Immunogen KLH-conjugated phosphospecific peptide around Ser189 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	1:50 - 1:100
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G and phospho-specific peptide, the non-phospho specific antibodies were

removed by chromatography using non-phosphopeptide.

Buffer PBS and 0.09% (W/V) Sodium azide.

Preservative 0.09% (W/V) Sodium azide

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 or below. 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

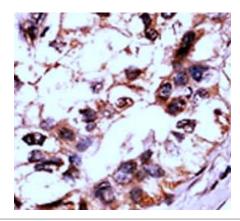
MAPKAPK5 at other sites.

Ubiquitination at Met-1 leads to degradation by the proteasome pathway. [UniProt]

Cellular Localization Cytoplasm. Nucleus. Note=Translocates to the cytoplasm following interaction with MAPKAPK5.

[UniProt]

Images



ARG58998 anti-ERK3 phospho (Ser189) antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human hepatocarcinoma stained with ARG58998 anti-ERK3 phospho (Ser189) antibody.