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ERK3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7502a

Specification

ERK3 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q16659
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**82681**
Antigen Region	**692-721**

ERK3 Antibody (C-term) - Additional Information

Gene ID 5597

Other Names
Mitogen-activated protein kinase 6, MAP kinase 6, MAPK 6, Extracellular signal-regulated kinase 3, ERK-3, MAP kinase isoform p97, p97-MAPK, MAPK6, ERK3, PRKM6

Target/Specificity
This ERK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 692~721 amino acids from the C-terminal region of human ERK3.

Dilution
WB~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ERK3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ERK3 Antibody (C-term) - Protein Information

Name MAPK6

Synonyms ERK3, PRKM6

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).

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

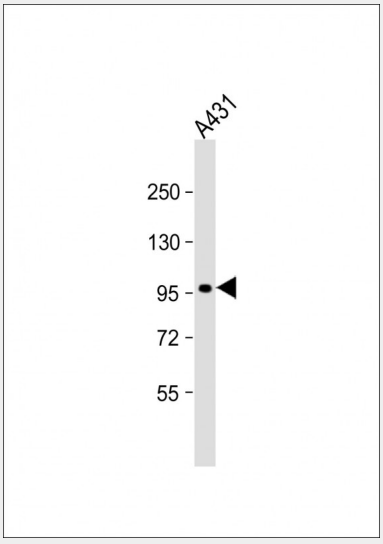
Tissue Location
Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts

ERK3 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ERK3 Antibody (C-term) - Images



Anti-ERK3 Antibody (Q707) at 1:500 dilution + A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

ERK3 Antibody (C-term) - Background

ERK3 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.

ERK3 Antibody (C-term) - References

Coulombe, P., et al., Mol. Cell. Biol. 23(13):4542-4558 (2003).
Meloche, S., et al., Oncogene 13(7):1575-1579 (1996).
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Zhu, A.X., et al., Mol. Cell. Biol. 14(12):8202-8211 (1994).
Boulton, T.G., et al., Cell 65(4):663-675 (1991).