

ERK 3 Polyclonal Antibody

Catalog # AP63511

Specification

ERK 3 Polyclonal Antibody - Product Information

Application WB
Primary Accession O16659

Reactivity Human, Mouse, Rat

Host Rabbit Clonality Polyclonal

ERK 3 Polyclonal Antibody - Additional Information

Gene ID 5597

Other Names

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

Dilution

WB~~WB: 1:500-1000 IHC: 1:200-500

Format

PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.

Storage Conditions

-20°C

ERK 3 Polyclonal Antibody - 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

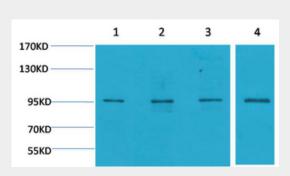


ERK 3 Polyclonal Antibody - Protocols

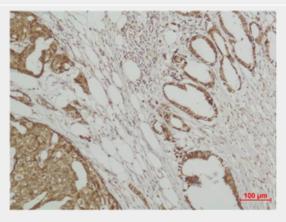
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ERK 3 Polyclonal Antibody - Images



Western blot analysis of 1) Hela, 2) 293T, 3) 3T3, 4) Rat Brain using ERK 3 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human Breast caricnoma using ERK 3 Polyclonal Antibody.

ERK 3 Polyclonal Antibody - Background

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).