

Anti-MAPK6 Picoband Antibody
Catalog # ABO12352**Specification****Anti-MAPK6 Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	Q16659
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Mitogen-activated protein kinase 6(MAPK6) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MAPK6 Picoband Antibody - Additional Information

Gene ID 5597

Other Names

Mitogen-activated protein kinase 6, MAP kinase 6, MAPK 6, 2.7.11.24, Extracellular signal-regulated kinase 3, ERK-3, MAP kinase isoform p97, p97-MAPK, MAPK6, ERK3, PRKM6

Calculated MW

82681 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cytoplasm . Nucleus . Translocates to the cytoplasm following interaction with MAPKAPK5. .

Tissue Specificity

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

Protein Name

Mitogen-activated protein kinase 6

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human MAPK6 recombinant protein (Position: E520-N721). Human MAPK6 shares 86.2% and 82.8% amino acid (aa) sequence identity with mouse and rat MAPK6, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-MAPK6 Picoband 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

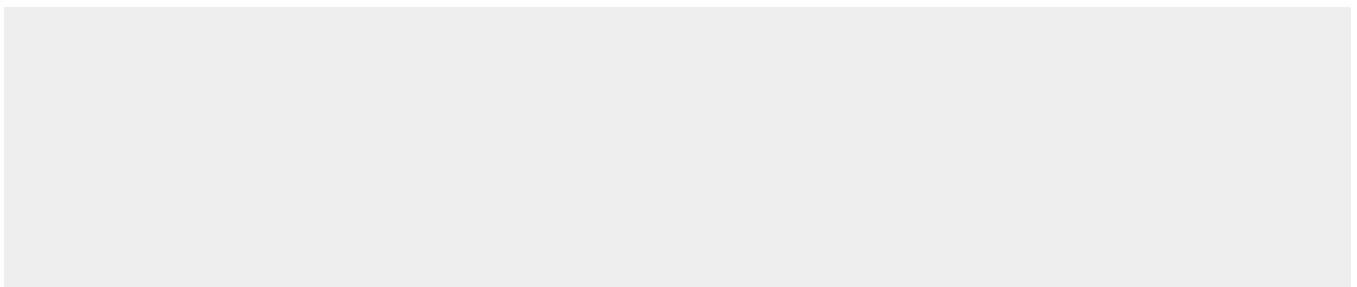
Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts

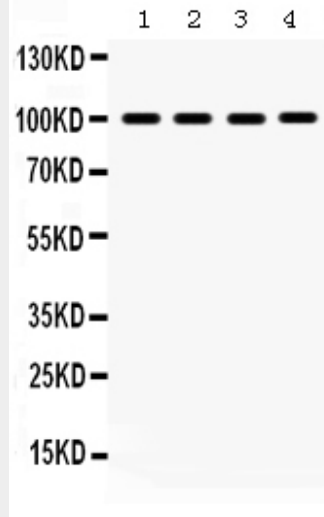
Anti-MAPK6 Picoband Antibody - Protocols

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

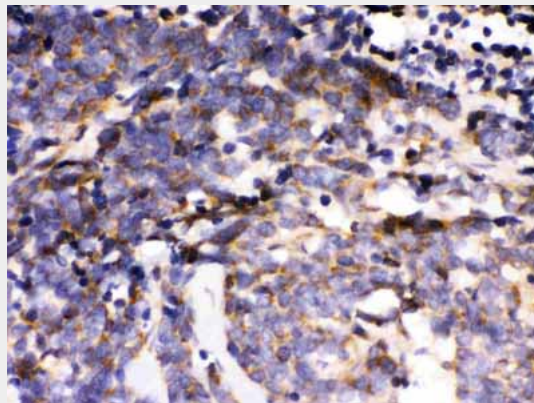
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MAPK6 Picoband Antibody - Images





Anti- MAPK6 Picoband antibody, ABO12352, Western blotting All lanes: Anti MAPK6 (ABO12352) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Rat Skeletal Muscle Tissue Lysate at 50ug Lane 3: PANC Whole Cell Lysate at 40ug Lane 4: NIH3T3 Whole Cell Lysate at 40ug Predicted bind size: 68KD Observed bind size: 100KD



Anti- MAPK6 Picoband antibody, ABO12352, IHC(P) IHC(P): Human Lung Cancer Tissue

Anti-MAPK6 Picoband Antibody - Background

Mitogen-activated protein kinase 6 is an enzyme that in humans is encoded by the MAPK6 gene. It is mapped to 15q21. 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.