Datasheet for ABIN968272

# anti-MAP2K5 antibody (AA 13-188)

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## Overview

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|---|---|
| Quantity: | 50 µg |
| Target: | MAP2K5 |
| Binding Specificity: | AA 13-188 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This MAP2K5 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

## Product Details

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| Immunogen: | Human MEK5 |
| Clone: | LPR-01 |
| Isotype: | IgG1 |
| Cross-Reactivity: | Mouse (Murine), Rat (Rattus), Dog (Canine) |
| Characteristics: | 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.<br>2. Please refer to us for technical protocols.<br>3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.<br>4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. |
| Purification: | Purified from tissue culture supernatant or ascites by affinity chromatography. |

## Target Details

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| Target: | MAP2K5 |
| Alternative Name: | MEK5 (MAP2K5 Products) |
| Background: | The mitogen-activated protein (MAP) kinase cascade participates in the Ras signal transduction pathway. The MAP kinase cascade consists of MEK kinase (Raf-1 or B-Raf), MAP/ERK kinase (MEK1 or MEK2), and extracellular-regulated protein kinase (ERK1 or ERK2). Raf becomes activated following its interaction with Ras-GTP (activated Ras). Via phosphorylation reactions, Raf activates MEK which, in turn, activates ERK. MEK5, also known as MAP Kinase 5, is a 50 kDa protein that is 40% identical to MEK1 and MEK2. Alternative splicing results in two MEK5 isoforms: alpha (50 kDa) and beta (40 kDa). MEK5beta has been reported to be ubiquitously expressed while MEK5alpha is expressed primarily in the liver and brain. The N-terminal amino acid sequence of MEK5alpha resembles sequences found in actin cytoskeletal proteins, indicating that MEK5alpha may associate with the cytoskeleton. However, the role of MEK5 in the MAP kinase pathway and its substrate remain to be identified. This antibody is routinely tested by western blot analysis.<br>Synonyms: MAP Kinase-5 |
| Molecular Weight: | 50 kDa |
| Pathways: | MAPK Signaling, Neurotrophin Signaling Pathway |

## Application Details

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|---|---|
| Comment: | Related Products: ABIN968537, ABIN967389 |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Concentration: | 250 µg/ml |
| Buffer: | Aqueous buffered solution containing BSA, glycerol. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |

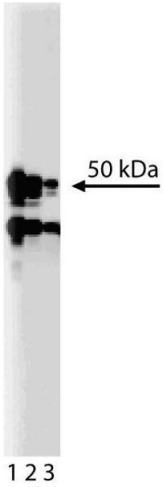
## Publications

Product cited in:

English, Vanderbilt, Xu, Marcus, Cobb: "Isolation of MEK5 and differential expression of alternatively spliced forms." in: **The Journal of biological chemistry**, Vol. 270, Issue 48, pp. 28897-902, (1996) (PubMed).

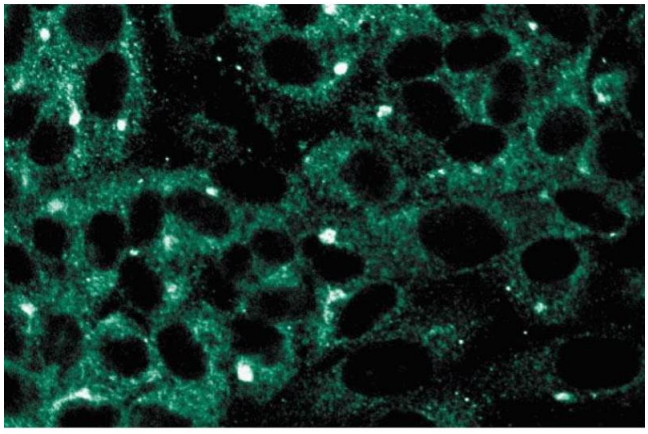
Zhou, Bao, Dixon: "Components of a new human protein kinase signal transduction pathway." in: **The Journal of biological chemistry**, Vol. 270, Issue 21, pp. 12665-9, (1995) (PubMed).

## Images




### Western Blotting

**Image 1.** Western blot analysis of MEK5 on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti- MEK5 antibody.



### Immunofluorescence

**Image 2.** Immunofluorescence staining on human endothelial cells.