

ABfinity™ MAP2K1 [pSpS217/221] Recombinant Rabbit Monoclonal Antibody

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Rev. 1.00

Catalog Number: 701267

Store at 2° to 8°C (short-term), or -20°C (long-term)

Clonality: Monoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human MAP2K1 [pSpS217/221]
Predicted Reactivity: Human

Product Description

MAP2K1 is a dual specificity mitogen-activated protein kinase (MAPK) kinase. It is an essential component of the MAP kinase pathway and stimulates the enzymatic activity of MAP kinases in response to various signals. Growth factors, cytokines, and proto-oncogenes transduce their signals through the activation of RAS, which leads to activation of the serine/threonine kinase RAF, and then to activation of MAPK kinase. MAP2K1 is activated by the Raf family member p74raf-1, through phosphorylation of serine residues at positions 217 and 221 in the activation loop.

Product Specifications

Immunogen: Phosphopeptide corresponding to amino acids 212–226 of human MAP2K1 [pSpS217/221]
Alternate Names: MAP2K1, MEK1, MAPKK1
Apparent MW: ~44 kDa
Gene ID: 5604
Protein Accession No.: Q02750
Sequence Identity: Human
Sequence Homology: Mouse, Rat, Drosophilla, Monkey, Rabbit
Clone/PAD: 13H22L22
Lot: See product label

Product Applications

| Application | Species | Test Material | Concentration |
|------------------|---------|----------------|-----------------------------------|
| Western blotting | Human | Jurkat cells | 1–2 µg/mL |
| Indirect ELISA | Human | Phosphopeptide | 1.5 × 10 ⁻⁴ to 3 µg/mL |

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage and Handling

Store the antibody at 2° to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Caution: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

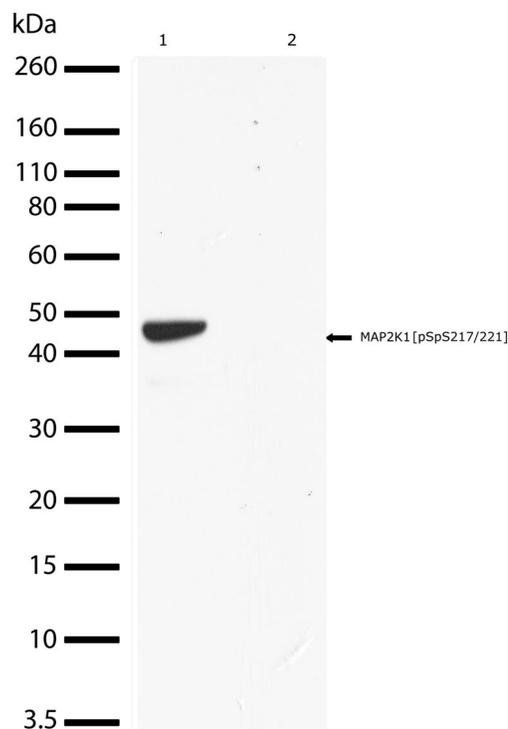


Figure 1 Western blot analysis of ABfinity™ MAP2K1 [pSpS217/221] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701267).

Western blot analysis was performed on Jurkat cells treated with PMA (50 ng/mL) for 20 minutes (lane 1, 2). Endogenous levels of MAP2K1 [pSpS217/221] was detected at ~44 kDa using ABfinity™ MAP2K1 [pSpS217/221] Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. To confirm specificity, competition was performed with the phosphopeptide to inhibit antibody binding (lane 2). The blot was developed using chemiluminescence (ECL) method.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Related Products

| Product Name | Quantity | Catalog no. |
|--|----------|-------------|
| iBlot® Dry Blotting System | 1 unit | IB1001 |
| WesternBreeze® Chromogenic Kit Anti-Rabbit | 1 kit | WB7105 |
| WesternBreeze® Chemiluminescent Kit, Anti-Rabbit | 1 kit | WB7106 |
| Goat anti-mouse (H+L), HRP conj. | 1 mg | G21040 |
| Goat anti-rabbit (H+L), HRP conj. | 1 mg | G21234 |
| Goat anti-mouse (H+L), AP conj. | 1 mg | G21060 |
| Goat anti-rabbit (H+L), AP conj. | 1 mg | G21079 |
| Nitrocellulose, 0.2 µm | 20/pack | LC2000 |

Explanation of symbols

| Symbol | Description | Symbol | Description |
|--------|---|--------|--|
| | Catalogue Number | | Batch code |
| | Research Use Only | | In vitro diagnostic medical device |
| | Use by | | Temperature limitation |
| | Manufacturer | | European Community authorised representative |
| | Without, does not contain | | With, contains |
| | Protect from light | | Consult accompanying documents |
| | Directs the user to consult instructions for use (IFU), accompanying the product. | | |

Limited Product Warranty

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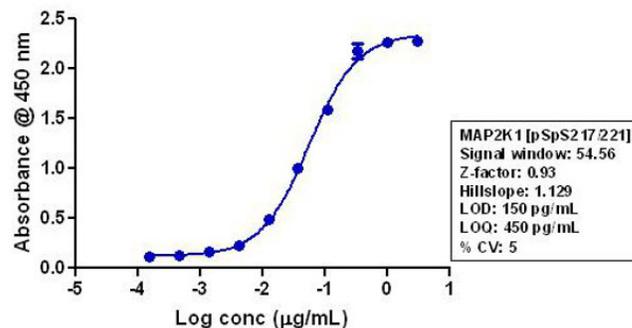


Figure 2 Indirect ELISA of ABfinity™ MAP2K1 [pSpS217/221] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701267).

Indirect ELISA was performed using various dilutions of ABfinity™ MAP2K1 [pSpS217/221] Recombinant Rabbit Monoclonal Antibody (Cat. no. 701267) to detect MAP2K1 [pSpS217/221] phosphopeptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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