

# AB-NK099-7

## MEK1-3 (MEK1-7) Antibody

Pan-specific polyclonal antibody for monitoring the expression of human dual specificity protein kinase MEK1 (MKK1, MAP2K1)



**KINEXUS**

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### Target Protein

|                                       |   |
|---------------------------------------|---|
| <b>Name Long:</b>                     | MAPK/ERK protein-serine kinase 1 (MKK1); Dual specificity mitogen-activated protein kinase kinase 1   |
| <b>Alias:</b>                         | ERK activator kinase 1; Kinase MEK1; MAP kinase kinase 1; MAP2K1; MAPK,ERK kinase 1; MAPK/ERK kinase 1; MAPKK 1; MAPKK1; MKK1; PRKMK1; CCDS10216.1; Q02750; ENSG00000169032 |
| <b>UniProt ID:</b>                    | Q02750  |
| <b>Sequence Predicted Mass (kDa):</b> | 43.439 (393 AA; Q02750); 40.764 (367 AA; Q02750-2)  |
| <b>Observed SDS-PAGE Mass (kDa):</b>  | 44-47   |

### Immunogen

|                                     |   |
|-------------------------------------|---|
| <b>Antibody Immunogen Source:</b>   | Human MEK1 (MKK1, MAP2K1) sequence peptide Cat. No.: PE-01AVU95 |
| <b>Antibody Immunogen Sequence:</b> | CIGLNQPSTPTHAAGV  |
| <b>Location in Target:</b>          | Corresponds to amino acid residues I379 to V393; C-terminus     |
| <b>Peptide Type:</b>                | For pan-specific recognition of target expression levels.       |
| <b>Target Phosphosite:</b>          | Not phosphorylated  |

### Production

|  |   |
|--|---|
| <b>Antibody Host Species:</b>            | Rabbit  |
| <b>Antibody Type:</b>                    | Polyclonal  |
| <b>Antibody Ig Isotype Clone Lot:</b>    | Immunoglobulin G  |
| <b>Production Method:</b>                | The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. |
| <b>Antibody Amount:</b>                  | 25 µg   |
| <b>Antibody Concentration:</b>           | 1 mg/ml   |
| <b>Lot Number:</b>                       | 140724  |
| <b>Storage Buffer:</b>                   | Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol   |
| <b>Storage Conditions and Stability:</b> | For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.   |

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### Applications

|                                       |   |
|---------------------------------------|---|
| <b>Product Use:</b>                   | Western blotting   Antibody microarrays   |
| <b>Antibody Dilution Recommended:</b> | 1 µg/ml for immunoblotting  |
| <b>Antibody Species Reactivity:</b>   | Human, mouse, rat and many other mammals  |
| <b>Antibody Positive Controls:</b>    | Strong immunoreactivity with recombinant human MEK1 on protein dot blots.   |
| <b>Overall Antibody Specificity:</b>  | Very high selectivity   |
| <b>Antibody Cross Reactivities:</b>   | Weak immunoreactivity on protein dot blots with recombinant human MKK4, and no immunoreactivity with MEK2 and MKK6. |

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit [www.kinexusproducts.ca](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)