

Datasheet for ABIN743798  
**anti-MEK1 antibody (pThr286)**



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2 Images

## Overview

|                      |                                                                                                                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                                                                                                                                                 |
| Target:              | MEK1 (MAP2K1)                                                                                                                                                                                                                                          |
| Binding Specificity: | pThr286                                                                                                                                                                                                                                                |
| Reactivity:          | Human, Mouse, Rat                                                                                                                                                                                                                                      |
| Host:                | Rabbit                                                                                                                                                                                                                                                 |
| Clonality:           | Polyclonal                                                                                                                                                                                                                                             |
| Conjugate:           | This MEK1 antibody is un-conjugated                                                                                                                                                                                                                    |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

|                       |                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic phosphopeptide derived from human MEK1 around the phosphorylation site of Thr286 |
| Isotype:              | IgG                                                                                                       |
| Cross-Reactivity:     | Human, Mouse, Rat                                                                                         |
| Predicted Reactivity: | Cow,Pig,Rabbit                                                                                            |
| Purification:         | Purified by Protein A.                                                                                    |

## Target Details

|         |               |
|---------|---------------|
| Target: | MEK1 (MAP2K1) |
|---------|---------------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | MEK1 ( <a href="#">MAP2K1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Background:       | <p>Synonyms: Dual specificity mitogen activated protein kinase kinase 1, ERK activator kinase 1, MAP kinase kinase 1, MAP kinase/Erk kinase 1, MAP/Erk kinase 1, Map2K1, MAPK/ERK kinase 1, MAPKK 1, MAPKK1, MEK 1, MEKK1, Mitogen activated protein kinase kinase 1, MKK 1, MKK1, PRKMK 1, PRKMK1, Protein kinase mitogen activated kinase 1 MAP kinase kinase 1, Protein kinase mitogen activated kinase 1, Protein kinase mitogen activated, kinase 1, MP2K1_HUMAN.</p> <p>Background: The protein encoded by this gene is a member of the dual specificity protein kinase family, which acts as a mitogen-activated protein (MAP) kinase kinase. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This protein kinase lies upstream of MAP kinases and stimulates the enzymatic activity of MAP kinases upon wide variety of extra- and intracellular signals. As an essential component of MAP kinase signal transduction pathway, this kinase is involved in many cellular processes such as proliferation, differentiation, transcription regulation and development.</p> |
| Gene ID:          | 5604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pathways:         | <a href="#">MAPK Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">Interferon-gamma Pathway</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">Autophagy</a> , <a href="#">Signaling of Hepatocyte Growth Factor Receptor</a> , <a href="#">BCR Signaling</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Application Details

|                    |                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | WB 1:300-5000<br>ELISA 1:500-1000<br>IHC-P 1:200-400<br>IHC-F 1:100-500<br>IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions:      | For Research Use only                                                                                                                   |

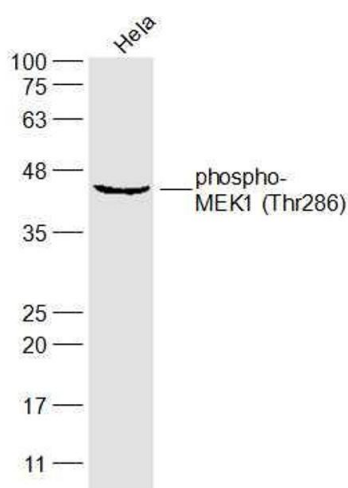
## Handling

|         |        |
|---------|--------|
| Format: | Liquid |
|---------|--------|

## Handling

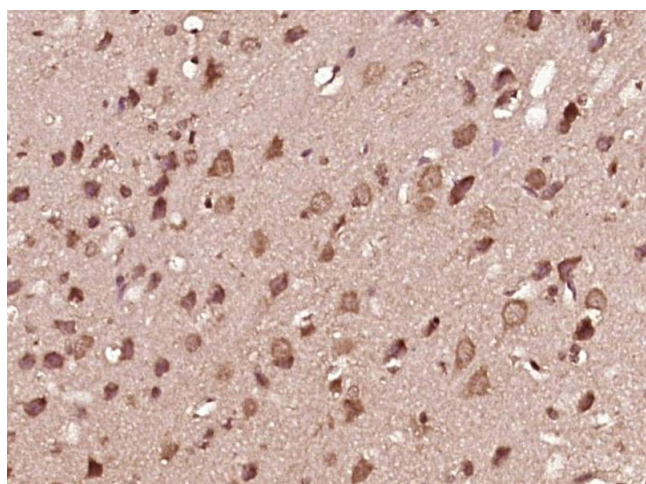
|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | 0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.                                              |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | 4 °C,-20 °C                                                                                                        |
| Storage Comment:   | Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.                                    |
| Expiry Date:       | 12 months                                                                                                          |

## Images



### Western Blotting

**Image 1.** HeLa lysates probed with MEK1 (Thr286) Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 2.** Paraformaldehyde-fixed, paraffin embedded Rat brain Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes Blocking buffer (normal goat serum) at 37°C for 30min Antibody incubation with MEK1(Thr286) Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, DAB staining.