

## Anti-MEK1 (Thr292) Antibody

Our Anti-MEK1 (Thr292) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is p  
Catalog # AN1448

### Specification

---

#### Anti-MEK1 (Thr292) Antibody - Product Information

Primary Accession	<a href="#">Q02750</a>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>IgG</b>
Calculated MW	<b>43439</b>

#### Anti-MEK1 (Thr292) Antibody - Additional Information

Gene ID **5604**

##### Other Names

Dual specificity mitogen activated protein kinase kinase 1 antibody, Dual specificity mitogen-activated protein kinase kinase 1 antibody, ERK activator kinase 1 antibody, MAP kinase kinase 1 antibody, MAP kinase/Erk kinase 1 antibody, MAP2K1 antibody, MAPK/ERK kinase 1 antibody, MAPKK 1 antibody, MAPKK1 antibody, MEK 1 antibody, Mek1 antibody, MEKK1 antibody, Mitogen activated protein kinase kinase 1 antibody, MKK 1 antibody, MKK1 antibody, MP2K1\_HUMAN antibody, PRKMK1 antibody, Protein kinase mitogen activated kinase 1 (MAP kinase kinase 1) antibody, Protein kinase mitogen activated kinase 1 antibody

##### Target/Specificity

MEK 1 (MAP kinase kinase, also known as MKK) is an integral component of the MAP kinase cascade that regulates cell growth and differentiation (Ahn, 1993; Chong et al., 2003). This pathway also plays a key role in synaptic plasticity in the brain (Adams and Sweatt, 2002). Activated MEK 1 acts as a dual specificity kinase phosphorylating both a threonine and a tyrosine residue on MAP kinase (Kyriakis et al., 1991; Seger et al., 1991; Crews et al., 1992). Conversely, there also appears to be a feedback phosphorylation of MEK 1 by MAP kinase. The sites on MEK 1 that are phosphorylated by MAP kinase are Thr-292 and Thr-386 (Mansour et al., 1994).

##### Format

Antigen Affinity Purified from Pooled Serum

##### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

Anti-MEK1 (Thr292) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

##### Shipping

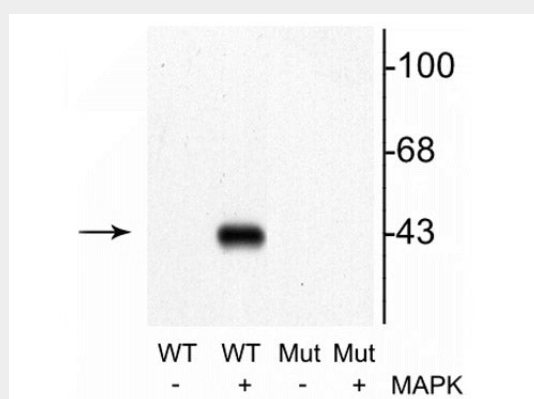
Blue Ice

## Anti-MEK1 (Thr292) 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-MEK1 (Thr292) Antibody - Images



Western blot of recombinant wild type MEK 1 (WT) and mutant MEK 1 (T292A) (Mut). Specific immunolabeling of the ~45 kDa MEK-1 protein phosphorylated at Thr292 is shown in the second lane where MAP kinase was coexpressed.

## Anti-MEK1 (Thr292) Antibody - Background

MEK 1 (MAP kinase kinase, also known as MKK) is an integral component of the MAP kinase cascade that regulates cell growth and differentiation (Ahn, 1993; Chong et al., 2003). This pathway also plays a key role in synaptic plasticity in the brain (Adams and Sweatt, 2002). Activated MEK 1 acts as a dual specificity kinase phosphorylating both a threonine and a tyrosine residue on MAP kinase (Kyriakis et al., 1991; Seger et al., 1991; Crews et al., 1992). Conversely, there also appears to be a feedback phosphorylation of MEK 1 by MAP kinase. The sites on MEK 1 that are phosphorylated by MAP kinase are Thr-292 and Thr-386 (Mansour et al., 1994).