

**Phospho-MEK4 (Ser80) Rabbit mAb**  
**Catalog # AP76889****Specification**

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**Phospho-MEK4 (Ser80) Rabbit mAb - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IP                 |
| Primary Accession | <a href="#">P45985</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Calculated MW     | 44288                  |

**Phospho-MEK4 (Ser80) Rabbit mAb - Additional Information****Gene ID** 6416**Other Names**  
MAP2K4**Dilution**  
WB~~1/500-1/1000  
IP~~1/20**Format**  
Liquid**Phospho-MEK4 (Ser80) Rabbit mAb - Protein Information****Name** MAP2K4**Synonyms** JNKK1, MEK4, MKK4, PRKMK4, SEK1, SERK1,**Function**

Dual specificity protein kinase which acts as an essential component of the MAP kinase signal transduction pathway. Essential component of the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. With MAP2K7/MKK7, is the one of the only known kinase to directly activate the stress-activated protein kinase/c-Jun N-terminal kinases MAPK8/JNK1, MAPK9/JNK2 and MAPK10/JNK3. MAP2K4/MKK4 and MAP2K7/MKK7 both activate the JNKs by phosphorylation, but they differ in their preference for the phosphorylation site in the Thr-Pro-Tyr motif. MAP2K4 shows preference for phosphorylation of the Tyr residue and MAP2K7/MKK7 for the Thr residue. The phosphorylation of the Thr residue by MAP2K7/MKK7 seems to be the prerequisite for JNK activation at least in response to pro-inflammatory cytokines, while other stimuli activate both MAP2K4/MKK4 and MAP2K7/MKK7 which synergistically phosphorylate JNKs. MAP2K4 is required for maintaining peripheral lymphoid homeostasis. The MKK/JNK signaling pathway is also involved in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis. Whereas MAP2K7/MKK7 exclusively activates JNKs, MAP2K4/MKK4 additionally activates the p38 MAPKs MAPK11, MAPK12, MAPK13 and MAPK14.

**Cellular Location**

Cytoplasm. Nucleus.

**Tissue Location**

Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues

**Phospho-MEK4 (Ser80) Rabbit mAb - 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](#)

**Phospho-MEK4 (Ser80) Rabbit mAb - Images**

