

Phospho-MEK4 (Ser80) Rabbit mAb

Catalog # AP76889

Product Information

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|-------------------|------------------------|
| Application | WB, IP |
| Primary Accession | P45985 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Monoclonal Antibody |
| Calculated MW | 44288 |

Additional Information

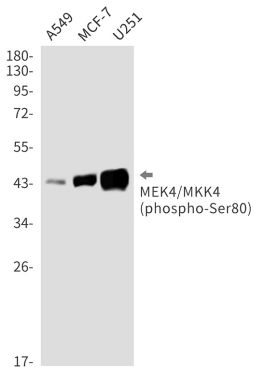
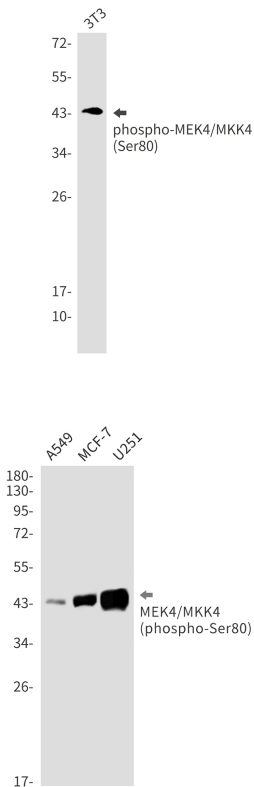
| | |
|-------------|---|
| Gene ID | 6416 |
| Other Names | MAP2K4 |
| Dilution | WB~~1/500-1/1000 IP~~1/20 |
| Format | 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |

Protein Information

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| 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. |

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| Cellular Location | Cytoplasm. Nucleus. |
| Tissue Location | Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues |

Images



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