# Rabbit SEK1 Polyclonal Antibody | anti-SEK1 antibody

SEK1 antibody

| CATALOG # | HOST | APPLICATIONS |
|---|---|---|
| **AAA108386** | **Rabbit** | **Immunohistochemistry, Immunofluorescence** |

## PRODUCT SYNONYMS

SEK1; Polyclonal Antibody; SEK1 antibody; Polyclonal SEK1; Anti-SEK1; Ab 261; SEK-1; Jun kinase kinase; SEK 1; JNKK; anti-SEK1 antibody

## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Purity/Purification** | SEK1 antibody was purified by immunoaffinity chromatography. |
| **Form/Format** | Supplied in liquid form in PBS buffer (no MG2+ or Ca2+), pH 7.4, 150 mm NaCl, 0.02% sodium azide and 50% glycerol. |
| **Concentration** | 1 mg/ml (varies by lot) |
| **Sequence Length** | 397 |
| **Applicable Applications for anti-SEK1 antibody** | IHC (Immunohistochemistry), IF (Immunofluorescence) |
| **Biological Significance** | SEK1 activates the MAP kinase homologues SAPK and JNK in response to various cellular stresses and inflamatory cytokines. Activation of SEK1 occurs through MEKK phosphorylation of serine and threonine residues at positions 257 and 261, respectively. Like MEK, SEK is a dual-specificity protein kinase that phosphorylates SAPK/JNK at a conserved T*PY* site in its activation loop. Phosphorylation by Akt at Ser80 inhibits SEK1 and suppresses stress-activated signal transduction. |
| **Cross-Reactivity** | Human, Mouse, Rat |
| **Immunogen** | SEK1 antibody was raised in Rabbit using the peptide sequence around aa 259~263 (A-K-T-R-D) derived from Human SEK1/MKK4 as the immunogen. |
| **Preparation and Storage** | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles. |

## IMAGES

**IHC (Immunohiostchemistry)**
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using SEK1/MKK4 antibody (left) or the same antibody preincubated with with blocking peptide (right

**IF (Immunofluorescence)**
Immunofluorescence staining of methanol-fixed Hela cells using SEK1/MKK4 antibody

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-SEK1 antibody** | Rabbit polyclonal SEK1 antibody |

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| **Product Categories/Family for anti-SEK1 antibody** | Proteases; Inhibitors; & Enzymes |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 1754531 |
| **NCBI GeneID** | 26398 |
| **Molecular Weight** | 44,114 Da |
| **NCBI Official Full Name** | SEK1 |
| **NCBI Official Synonym Full Names** | mitogen-activated protein kinase kinase 4 |
| **NCBI Official Symbol** | Map2k4 |
| **NCBI Official Synonym Symbols** | MEK4; MKK4; Sek1; JNKK1; Serk1; PRKMK4 |
| **NCBI Protein Information** | dual specificity mitogen-activated protein kinase kinase 4 |
| **UniProt Protein Name** | Dual specificity mitogen-activated protein kinase kinase 4 |
| **UniProt Gene Name** | **Map2k4** |
| **UniProt Synonym Gene Names** | Jnkk1; Mek4; Mkk4; Prkmk4; Sek1; Serk1; Skk1; MAP kinase kinase 4; MAPKK 4; JNK kinase 1; JNKK 1; MEK 4; SEK1 |
| **UniProt Entry Name** | MP2K4_MOUSE |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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