

## SEK1 (MKK4/JKK1) Polyclonal Antibody

**CATALOG #:** 3477-100

**AMOUNT:** 100 µg

**LOT #:** \_\_\_\_\_

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide corresponding to amino acid 344 of mouse SEK1 (ID#: BV-964)

**FORMULATION:**  
100 µg (0.5 mg/ml) epitope affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

**SPECIES REACTIVITY:** human, mouse, rat

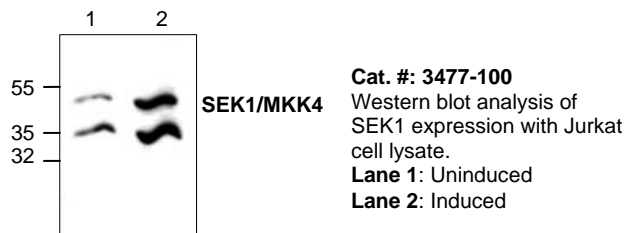
**STORAGE CONDITIONS:**  
Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**BACKGROUND:**  
SAPK/Erk kinase (SEK1), also known as MKK4 or Jun kinase kinase (JNKK), activates the MAP kinase homologues SAPK and JNK in response to various cellular stresses and inflammatory cytokines. Activation of SEK1 occurs through phosphorylation of serine and threonine residues at positions 257 and 261, respectively, by MEKK. 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 the stress-activated signal transduction.

**SPECIFICITY:** The antibody recognizes SEK1 of human, mouse, and rat origins.

**APPLICATION:**  
The antibody can be used in Western blotting (1-2 µg/ml) and immunoprecipitation (10-20 µg/ml). However, the optimal concentrations should be determined individually.

**USAGE:** For Research Use Only. Not to be used in human.



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