

**R1172CP****MEKK5 / ASK1 control peptide****Alternate names:**

Apoptosis signal-regulating kinase 1, MAP3K5, MAPK/ERK kinase kinase 5, MAPKKK5, Mitogen-activated protein kinase kinase kinase 5

**Quantity:**

50 µg

**Concentration:**

1 mg/ml (by weight)

**Background:**

Mitogen activated protein (MAP) kinase cascades are activated in response to various extracellular stimuli including cytokines, growth factors and environmental stresses. A novel MAP kinase kinase kinase (MAPKKK) was recently identified and designated ASK1 (for apoptosis signal-regulating kinase 1). ASK1 activates two different subgroups of MAPKK, MKK4 and MKK6, which in turn activate c-Jun N terminal kinase (JNK) and p38 MAP kinase, respectively. ASK1 is activated by TNFR and Fas through the interaction with members of the TRAF family and Fas associated protein Daxx. Overexpression of ASK1 induces apoptotic cell death, and a catalytically inactive form of ASK1 inhibits TNF alpha-induced apoptosis. ASK1 is expressed in variety of human and mouse tissues.

**Uniprot ID:**

[Q99683](#)

**NCBI:**

[NP\\_005914.1](#)

**GeneID:**

[4217](#)

**Format:**

**State:** Liquid (sterile filtered).

**Buffer System:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% sodium azide as preservative.

**Applications:**

Intended for use as a control peptide when used with Anti-ASK1 to block specific interaction of Anti-ASK1 with ASK1.

Control peptide should be used at 1.0 µg per 1.0 µl of antiserum in per assay. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Add. Information:**

Peptide MW: 1258 daltons.

Peptide Sequence: acetyl-A-T-R-G-R-G-S-pS-V-G-G-G-amide.

Purity: > 95% specific peptide.

**Storage:**

Store vial at -20°C or below prior to opening.

Dilute only prior to immediate use. Aliquot contents and freeze at -20°C or below.

Avoid cycles of freezing and thawing.

Shelf life: One year from despatch.