

## Monoclonal Antibody to MAP2K1 / MAP2K2 (incl. pos. control) - Purified

<b>Alternate names:</b>	MAP2K1 - mitogen-activated protein kinase kinase 1, MAP2K2 - mitogen-activated protein kinase kinase 2, MAPKK1, MAPKK2, MEK1, MEK2, MKK1, MKK2, PRKMK1, PRKMK2
<b>Catalog No.:</b>	AM00091PU-N
<b>Quantity:</b>	0.1 mg
<b>Background:</b>	MEK (MAP Kinase Kinase) phosphorylates the MAP Kinase on both threonine and tyrosine residues of the activation motif TEY. MEK1 and MEK2 are activated by phosphorylation of two serine residues (Ser 218/222 in MEK1 and Ser 222/226 in MEK2). These phosphorylation sites are substrates of the Raf family of kinases.
<b>Uniprot ID:</b>	<a href="#">Q02750</a>
<b>NCBI:</b>	<a href="#">NP_002746</a>
<b>GenEID:</b>	<a href="#">5604</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	9G3
<b>Immunogen:</b>	Synthetic peptide conjugated to KLH
<b>Format:</b>	<b>State:</b> Lyophilized purified Ig <b>Purification:</b> Size exclusion chromatography <b>Buffer System:</b> 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose <b>Reconstitution:</b> Restore with 1 ml H <sub>2</sub> O (15 min, RT)
<b>Applications:</b>	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. Positive Control: Cell lysate from untreated HepG2 cells. ELISA: 0.1 µg/ml (protein ELISA). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody specifically recognizes the activation loop of MEK1/2 independent of its phosphorylation status. <b>Species:</b> Human, Mouse, Rat, Dog. Other species not tested.
<b>Storage:</b>	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. Shelf life: one year from despatch.

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Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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Pictures:

Detection of endogenous MEK1/2 Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab MEK1/2-9G3 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: HeLa; lane 2: HepG2; lane 3: HEK293; lane 4: SH-SY5Y; lane 5: MDCK; lane 6: PC12; lane 7: CMT 93; lane 8: Neuro 2A; lane 9: 3T3

