

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

Alternate names:	Dual specificity mitogen-activated protein kinase kinase 1, ERK activator kinase 1, MAP kinase kinase 1, MAPK/ERK kinase 1, MAPKK 1, MEK1, PRKMK1
Catalog No.:	AM00090PU-N
Quantity:	0.1 mg
Background:	MEK (MAP Kinase Kinase) phosphorylates the MAP Kinase 1 and 2 on both threonine and tyrosine residues of the activation loop 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.
Uniprot ID:	Q02750
NCBI:	NP_002746.1
GenEID:	5604
Host / Isotype:	Mouse / IgG1
Clone:	7E10
Immunogen:	Phosphopeptide conjugated to KLH. Epitope: pSer 218/222 in MEK1 pSer 222/226 in MEK2 AA Sequence: D pS M A N pS F Remarks: Mol. Weight of Antigen: 45 kDa
Format:	State: Lyophilized Purification: Purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography. Buffer System: 1 x PBS / 0.09 % Na-azide / PEG and Sucrose Reconstitution: Reconstitute with 1 ml H ₂ O (15 min, RT)
Applications:	Suitable for Western Blot (0.5 µg/ml for HRPO/ECL detection) Recommended buffer: Casein/Tween 20 based blocking and blot incubation buffer. Use SW480 pervanadate-treated as positive control (see "Protocols" below). ELISA: 0.1 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	AM00090PU-N specifically recognizes MEK1 phosphorylated at serine 218/222 and MEK2 phosphorylated at serine 222/226. Species: Human, mouse and dog. Other species not tested.
Add. Information:	A positive control cell lysate is provided with this antibody.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Storage: For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 2-8°C up to 3 months.

Protocols: Contains Positive Control (pervanadate treated SW 480 cells)

Format: Lyophilized cell lysate from SW480 cells. Serum starved cells were treated for 15min with pervanadate.

Reconstitution: Add 200 µl H₂O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 20.000 cells. Use 20 µl/lane (mini gel) for HRP/ECL detection of the target proteins.

Please note: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.

Aliquot and store frozen. Avoid repeated freeze/thaw cycles.

Pictures: Phosphospecificity: Whole cell extracts of control (co), EGF stimulated (EGF) or pervanadate treated (VH) A549 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab MEK1/2-7E10 (0.5 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

