

Product datasheet for **AM00090PU-N**

MEK1 (MAP2K1) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 7E10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7E10
Applications:	ELISA, WB
Recommended Dilution:	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.
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to KLH. Epitope: pSer 218/222 in MEK1 pSer 222/226 in MEK2
Specificity:	AM00090PU-N specifically recognizes MEK1 phosphorylated at serine 218/222 and MEK2 phosphorylated at serine 222/226.
Formulation:	1 x PBS / 0.09 % Na-azide / PEG and Sucrose State: Purified State: Lyophilized
Reconstitution Method:	Reconstitute with 1 ml H ₂ O (15 min, RT)
Purification:	Purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
Conjugation:	Unconjugated
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.
Gene Name:	mitogen-activated protein kinase kinase 1



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Database Link: [Entrez Gene 5604 Human Q02750](#)

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.

Synonyms: MAPKK 1, ERK activator kinase 1, MAPK/ERK kinase 1, MEK1, PRKMK1, MAP kinase kinase 1

Note: A positive control cell lysate is provided with this antibody.

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

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

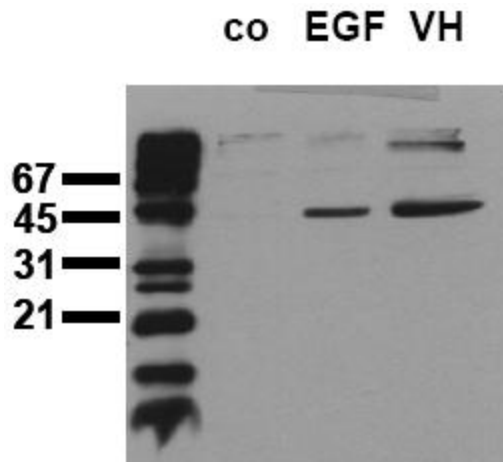
Reconstitution: Add 200 μ l H₂O. After complete solubilization add 200 μ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 μ l of positive control cell lysate correspond to ca. 20.000 cells. Use 20 μ l/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.

Product images:



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 μ g/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).