Mouse Monoclonal Antibody to

MEK1(pS 218/222) / MEK2 (pS 222/226)

clone 7E10

Order No.: **0174-100/MEK1/2-7E10**

Size (µg) 100

Lot No.: 0174S

www.nanotools.de

orders & support:
email: info@nanotools.de
phone: +49-7641-455 670
fax: +49-7641-455 671

04/150307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB, ELISA	45 kDa	SW480	pSer 218/222 in MEK1 pSer 222/226 in MEK2 ... D - pS - M - A - N - pS - F...	phosphopeptide conjugated to KLH

Background and Specificity:

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.

Mab MEK1/2-7E10 specifically recognizes MEK1 phosphorylated at serine 218/222 and MEK2 phosphorylated at serine 222/226 at 45 kDa. The antibody is suitable for Western Blot and ELISA applications.

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography

Formulation: lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose.

Reconstitution: Reconstitute with 1 ml H_2O (15 min, RT)

Stability: 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. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freeze / thaw cycles.

Positive Control: #0802: Cell lysate from pervanadate-treated SW480 cells

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

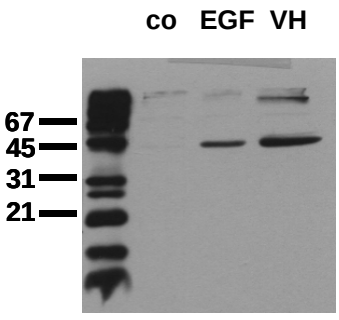
Immunocytochemistry: ND

ELISA: 0.1 µg/ml (protein ELISA); capture ELISA: N.D.

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.

Related Products

mab to MAPK 1/2 (pT-E-pY)
#0012-100/MAPK-12D4
mab to MAPK 2 (C-terminus)
#0011-100/MAPK2-6G11
mab to MAPK 2 (N-terminus)
#0178-100/MAPK2-6H3
mab to MAPK7/erk5
#0223-100/MAPK7/erk5-12F2
mab to MEK1 (N-terminus)
#0186-100/MEK1-10B1
mab to MEK1/2
#0150-100/MEK1/2-9G3
mab to MEK2 (N-terminus)
#0148-100/MEK2-8E8
mab to MKK3 (N-terminus)
#0166-100/MKK3-5F7
mab to MKK5 (N-terminus)
#0224-100/MKK5-14B5
mab to MKK7 (N-terminus)
#0189-100/MKK7-10F7
mab to Fos (pS374)
#0118-100/Fos-34E4
mab to Fos (N-terminus)
#0122-100/Fos-8B5
mab to C-Raf (pS621)
#0102-100/C-Raf-6B4
mab to C-Raf
#0120-100/C-Raf-PBB-1



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).