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Mouse Monoclonal Antibody to

MEK1/2 (activation loop)

clone 9G3

Order No.: **0150-100/MEK1/2-9G3**

Size (µg) 100

Lot No.: 0150S

04/150307F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG2a	human, mouse, rat, dog	WB, ELISA	45 kDa	HepG2	activation loop (phosphorylation independent)	peptide conjugated to KLH

Background and Specificity:

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.

Mab MEK1/2-9G3 specifically recognizes the activation loop of MEK1/2 independent of its phosphorylation status. 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: #0811: Cell lysate from untreated HepG2 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

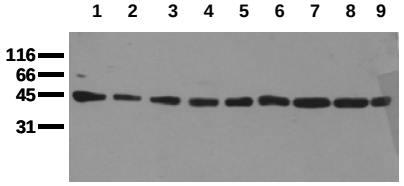
Immunocytochemistry: ND

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 MEK1 (pS218/222)
mab to MEK2 (pS222/226)
#0174-100/MEK1/2-7E10
mab to MEK1 (N-terminus)
#0186-100/MEK1-10B1
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 MAPK 1/2 (pT-E-pY)
#0012-100/MAPK-12D4
mab to MAPK 2 (C-terminus)
#0011-100/MAPK-6G11
mab to MAPK 2 (N-terminus)
#0178-100/MAPK-6H3
mab to MAPK 2 (internal sequence)
#0239-100/MAPK2-12A4
mab to MAPK 7/erk 5
#0223-100/MAPK7/erk5-12F2
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



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