Mouse Monoclonal Antibody to

SAPK1/2 (pT - P - pY; pT - G - pY)

clone 9H8

www.nanotools.de

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

Order No.: **0041-100/SAPK1/2-9H8**
Size (µg) 100
Lot No.: 0041S

04/080507F

Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse	WB, ELISA, IP, IHC	46/54 kDa	A431	pThr - Gly/Pro - pTyr	phosphopeptide conjugated to KLH

Background and Specificity:

Stress-activated Protein Kinases (SAPKs) are strongly activated in response to adverse stimuli such as heat and osmotic shock, UV light and other DNA-damaging reagents, and inhibitors of protein synthesis. They are also activated strongly in response to agonists that are released or produced under conditions of stress, such as proinflammatory cytokines.

Mab SAPK1/2-9H8 specifically interacts with the Thr - Gly/Pro - pTyr motif of activated, monophosphorylated SAPK1/2 kinases. The antibody accepts the dually phosphorylated site as well (pThr - Gly/Pro - pTyr) and does not interact with the non-phosphorylated form of the protein. Mab SAPK1/2-9H8 shows no crossreaction with activated MAP Kinases 1 or 2.

Related Products

mab to SAPK1α/jnk2 (N-terminus)
#0190-100/SAPK1a-12C5
mab to SAPK1γ/jnk1 (N-terminus)
#0200-100/SAPK1g-5D10
mab to SAPK2α (N-terminus)
#0034-100/SAPK2a-13D5
#0035-100/SAPK2a-20B11
mab to SAPK2δ (N-terminus)
#0053-100/SAPK2d-5H7
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 MAPK 2 (internal sequence)
#0239-100/MAPK2-12A4
mab to MAPK7/erk5
#0223-100/MAPK7/erk5-12F2
mab to Mxi 2 (N-terminus)
0046-100/Mxi-2F2

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

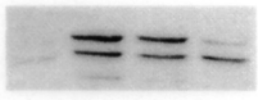
Formulation: lyophilized from 1 ml 2 x PBS / 0.1 % Na-azide / PEG and Sucrose.

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: #0834: Cell lysate from sorbit-treated A431 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.



Immunoblot Analysis
Jurkat cells were cultured under serum-free conditions for 48h and subsequently were either unstimulated (lane 1) or stimulated with 300mM sorbit (lane 2), 1mM arsenite (lane 3) or 1mM pervanadate (lane 4).The cell lysates were separated by SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab SAPK1/2-9H8 at 0.5µg/ml for 1h at 15-22°C and developed by ECL .

Immunoprecipitation: use at 1 - 10 µg per 10^6 pervanadate-treated A431 cells

Immunocytochemistry: ND

ELISA: use at 0.05 µg/ml

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