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AM00084PU-N

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Monoclonal Antibody to MAPK3 / ERK1 (pT-E-pY Motif) (incl. pos. control) - Purified

Alternate names: ERK-1, ERT2, Extracellular signal-regulated kinase 1, Insulin-stimulated MAP2 kinase, MAP

kinase 3, MAP kinase isoform p44, MAPK 3, Microtubule-associated protein 2 kinase, Mitogen-activated protein kinase 1, Mitogen-activated protein kinase 3, PRKM3, p44-ERK1,

p44-MAPK

Catalog No.: AM00084PU-N

Quantity: 0.1 mg

Background: Extracellular signal/mitogen activated protein kinases (erk/MAPK) are a group of proline-

directed serine/threonine kinases that are activated by dual phosphorylation of conserved threonine and tyrosine residues within a characteristic T X Y peptide motif. The mitogenactivated kinases erk1 (MAPK1) and erk2 (MAPK2) acquire full enzymatic activity upon phosphorylation of both threonine and tyrosine residues within the sequence motif T E Y.

Uniprot ID: P27361

NCBI: NP 001035145.1

GenelD: <u>5595</u>

Host / Isotype: Mouse / IgG1

Clone: 12D4

MS/20130121

Immunogen: Synthetic phosphopeptide conjugated to KLH

Format: State: Lyophilized purified IgG

Purification: Size exclusion chromatography

Buffer System: 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose

Reconstitution: Restore with 1 ml H2O (15 min, RT).

Applications: Western Blot: 0.5 μg/ml for HRPO/ECL detection.

Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation

buffer.

Positive Control: Cell lysate from pervanadate-treated HepG2 cells.

ELISA: 0.05 μg/ml.

Immunoprecipitation: 1 - 10 μg per 10e6 pervanadate-treated A431 or HepG2 cells.

Immunocytochemistry: 1 - 10 μg/ml. Immunohistochemistry on frozen sections.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.



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Specificity:

This antibody specifically interacts with the pThr - Glu - pTyr motif of activated MAP kinases 1 and 2 (erk1/2). The antibody requires phosphorylation both at the threonine and the tyrosine site and does not interact with the non-phosphorylated form of the protein. Mab

MAPK-12D4 shows no crossreaction with activated SAP kinases 1 or 2.

Species: Human, Mouse, Dog, Rat.

Other species not tested.

Storage:

Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and

freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing.

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

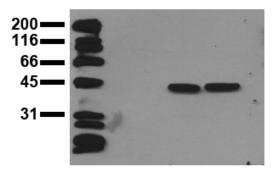
Shelf life: one year from despatch.

Pictures:

Phosphospecificity Whole cell extracts of control (co), EGF stimulated (EGF) or pervanadate treated (VH) SKOV3 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 MAPK-12D4 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp.

time: 30 sec).

co EGF VH



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