

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 mitogen-activated 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
GeneID:	5595
Host / Isotype:	Mouse / IgG1
Clone:	12D4
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 H ₂ O (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.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



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).

