

Product datasheet for **AM00084PU-N**

ERK1 (MAPK3) (pT-E-pY Motif) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 12D4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	12D4
Applications:	ELISA, IF, IHC, IP, WB
Recommended Dilution:	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.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH
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.
Formulation:	1 ml 2 x PBS / 0.09% Sodium Azide / PEG and Sucrose State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Size exclusion chromatography
Conjugation:	Unconjugated



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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.

Stability: Shelf life: one year from despatch.

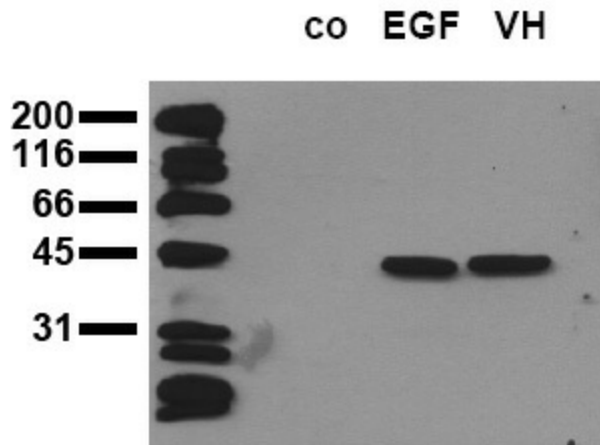
Gene Name: mitogen-activated protein kinase 3

Database Link: [Entrez Gene 5595 Human P27361](#)

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.

Synonyms: MAP kinase 3, MAPK 3, ERK-1, ERT2, p44-MAPK, p44-ERK1, PRKM3

Product images:



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 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).