

## Product datasheet for **AM00084FC-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:	IF
Recommended Dilution:	Immunocytochemistry: 1 - 10 µg/ml.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH. Epitope: ...pT-E-pY...
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:	PBS/0.09% Na-Azide/PEG and Sucrose Label: FITC State: Liquid purified IgG
Concentration:	lot specific
Purification:	Subsequent thiophilic adsorption and size exclusion chromatography
Conjugation:	FITC
Storage:	Aliquote and freeze in liquid nitrogen. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. Protect from light.
Gene Name:	mitogen-activated protein kinase 3



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**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