

## Product datasheet for **AM00084BT-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: | <u>Western Blot</u> : 0.5 µg/ml for HRPO/ECL detection.<br>Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer.<br>Positive Control: Cell lysate from pervanadate-treated HepG2 cells.<br><u>ELISA</u> : 0.05 µg/ml.<br><u>Immunoprecipitation</u> : 1 - 10 µg per 10e6 pervanadate-treated A431 or HepG2 cells.<br><u>Immunocytochemistry</u> : 1 - 10 µg/ml.<br><u>Immunohistochemistry on frozen sections</u> . |
| 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:          | PBS/0.09% Na-Azide/PEG and Sucrose<br>Label: Biotin<br>State: Liquid purified IgG   |
| Concentration:        | lot specific  |
| Purification:         | Size exclusion chromatography   |
| Conjugation:          | Biotin  |
| Storage:              | Store the antibody (aliquote in liquid nitrogen) at -80°C.<br>Avoid repeated freezing and thawing.<br>Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.   |



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| <b>Stability:</b>     | Shelf life: one year from despatch.   |
| <b>Gene Name:</b>     | mitogen-activated protein kinase 3  |
| <b>Database Link:</b> | <a href="#">Entrez Gene 5595 Human P27361</a>   |
| <b>Background:</b>    | 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. |
| <b>Synonyms:</b>      | MAP kinase 3, MAPK 3, ERK-1, ERT2, p44-MAPK, p44-ERK1, PRKM3  |