

ERK 1/2 (Phospho-Tyr222/205) (4G3) Mouse mAb

CatalogNo: YP1882

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF

MW

- 44,42kD (Observed)

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IHC 1:100-200

IF 1:50-200

WB 1:1000-1:5000

Basic Information

Clonality Monoclonal

Clone Number 4G3

Immunogen Information

Immunogen Synthetic Peptide of Phospho-ERK 1/2 (Y222/205) at AA range of 140-220

Specificity This antibody detects endogenous levels of p44 and p42 MAP Kinase (Erk1 and Erk2) when dually phosphorylated at Thr222 of Erk1 (Thr205 of Erk2)

| Target Information

Gene name MAPK1/MAPK3

Protein Name MAPK1/MAPK3

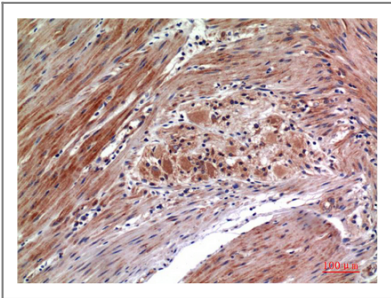
Organism	Gene ID	UniProt ID
Human	5594 ; 5595 ;	P27361 ; P28482 ;
Mouse	26417 ; 26413 ;	
Rat	50689 ; 116590 ;	P21708 ; P63086 ;

Cellular Localization Cytoplasm . Nucleus. Membrane, caveola . Cell junction, focal adhesion . Autophosphorylation at Thr-207 promotes nuclear localization (PubMed:19060905). PEA15-binding redirects the biological outcome of MAPK3 kinase-signaling by sequestering MAPK3 into the cytoplasm (By similarity). .

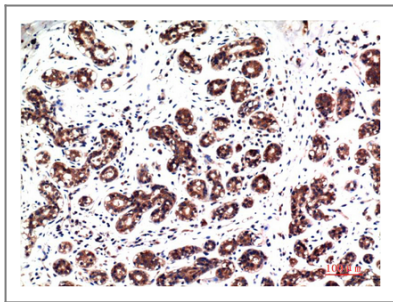
Tissue specificity Epithelium, Eye, Hepatoma, Human cervix, Lymph,

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium., Domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases., enzyme regulation:Activated by tyrosine phosphorylation in response to insulin and NGF., Function:Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4)., PTM:Dually phosphorylated on Thr-202 and Tyr-204, which activates the enzyme., similarity:Belongs to the protein kinase superfamily., similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily., similarity:Contains 1 protein kinase domain., subunit:Interacts with MORG1 (By similarity). Binds to HIV-1 Nef. This interaction inhibits its kinase activity. Interacts with HSF4 and NISCH.,

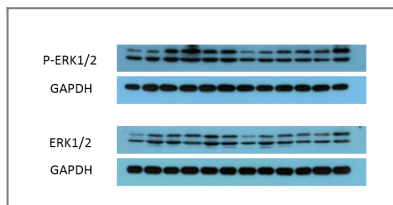
| Validation Data



Immunohistochemical analysis of paraffin-embedded Human Colon Carcinoma Tissue using Phospho-ERK1/2 Y222/205 Mouse mAb diluted at 1:200



Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma Tissue using Phospho-ERK1/2 Y222/205 Mouse mAb diluted at 1:200.



The picture was kindly provided by our customer. Primary antibody was diluted at 1:2000. Loading control antibody was diluted at 1:20000

Contact information

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Please scan the QR code to access additional product information:

ERK 1/2 (Phospho-Tyr222/205) (4G3) Mouse mAb

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