

ERK 2 (PTR1173) Mouse mAb

CatalogNo: YM4371 **Recombinant** 

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, ELISA

MW

- 41kD (Calculated)
- 42kD (Observed)

Isotype

- Mouse IgG

Storage

Storage*

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

Formulation

PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

WB 1:500-2000**IF 1:100-500****ELISA 1:1000-5000**

Basic Information

Clonality

Monoclonal

Clone Number

PTR1173

Immunogen Information

Immunogen

Synthesized peptide derived from human ERK 2 AA range: 150-250

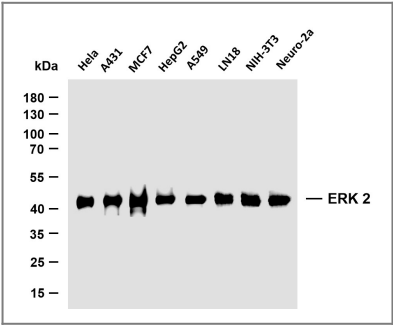
Specificity

This antibody detects endogenous levels of ERK 2.

Target Information

Gene name	MAPK1		
Protein Name	Mitogen-activated protein kinase 1		
	Organism	Gene ID	UniProt ID
	Human	5594 ;	P28482 ;
	Mouse	26413 ;	P63085 ;
	Rat	116590 ;	P63086 ;
Cellular Localization	Cytoplasmic, Nuclear		
Tissue specificity	Brain,Epithelium,Lung,Platelet,T-cell,		
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 phosphorylation on tyrosine and threonine in response to insulin and NGF. Both phosphorylations are required for activity.,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 ELK1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4) and ARHGEF2.,online information:Extracellular signal-regulated kinase entry,PTM:Dually phosphorylated on Thr-185 and Tyr-187, 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 through its SH3 domain. This interaction inhibits its tyrosine-kinase activity. Interacts with its substrates HSF4 and ARHGEF2. Interacts with NISCH.,		

Validation Data



arious whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-ERK 2 (PTR1173) antibody. The HRP-conjugated Goat anti-Mouse IgG (H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: MCF7 Lane 3: Rat brain Lane 4: Rat brain Lane 5: Rat brain Lane 6: LN18 Lane 7: NIH-3T3 Lane 8: Neuro-2a

Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code
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product information:
ERK 2 (PTR1173)
Mouse mAb

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