

## ERK 1/2 Rabbit pAb

CatalogNo: YT1625

Orthogonal Validated Comparable Abs 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- IF, WB, IHC, ELISA, CHIP

#### MW

- 42,44kD (Observed)

#### Isotype

- IgG

### Recommended Dilution Ratios

**IF 1:50-200****WB 1:500-1:2000****IHC 1:100-1:300****ELISA 1:10000****Not yet tested in other applications**

### 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.

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human p44/42 MAPK. AA range:330-379**Specificity** ERK 1/2 Polyclonal Antibody detects endogenous levels of ERK 1/2 protein.

## | Target Information

Gene name	MAPK1/MAPK3		
Protein Name	Mitogen-activated protein kinase 3		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">5594</a> ; <a href="#">5595</a> ;	<a href="#">P27361</a> ; <a href="#">P28482</a> ;
	Mouse	<a href="#">26417</a> ; <a href="#">26413</a> ;	
	Rat	<a href="#">50689</a> ; <a href="#">116590</a> ;	<a href="#">P21708</a> ; <a href="#">P63086</a> ;
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

## | Contact information

Orders: [order@immunoway.com](mailto:order@immunoway.com)  
Support: [tech@immunoway.com](mailto: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 to access additional product information:  
**ERK 1/2 Rabbit pAb**

