ERK 1/2 (Phospho Tyr204) Rabbit pAb

CatalogNo: YP0101 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 44kD,42kD (Observed)

Isotype
- IgG

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

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human p44/42 MAP Kinase around the phosphorylation site of Tyr204. AA range:170-219

Specificity Phospho-ERK 1/2 (Y204) Polyclonal Antibody detects endogenous levels of ERK 1/2 protein only when phosphorylated at Y204.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):TEyVA

Target Information

Gene name MAPK1/MAPK3

Protein Name Mitogen-activated protein kinase 3

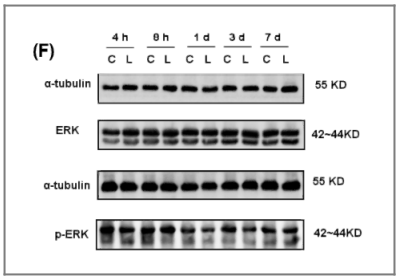
Organism	Gene ID	UniProt ID
Human	5594; 5595;	P27361; P28482;
Mouse	26417; 26413;	Q63844;
Rat	50689; 116590;	P21708; P63086;

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) . .

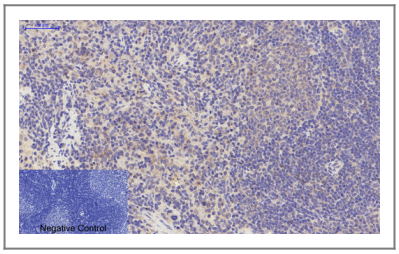
Tissue specificity Epithelium ,Eye ,Hepatoma ,Human cervix ,Lymph ,

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. ,

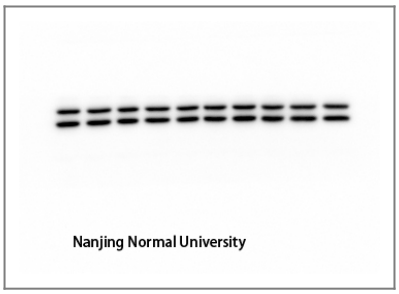
Validation Data



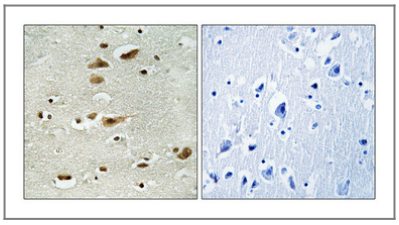
mGluR1/IP3/ERK signaling pathway regulates vestibular compensation in ON UBCs of the cerebellar flocculus. CNS Neuroscience & Therapeutics Sulin Zhang IF Rat 1:200 cerebellum



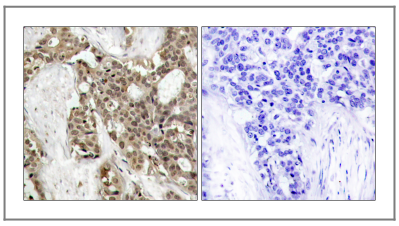
Immunohistochemical analysis of paraffin-embedded Rat-spleen tissue. 1,ERK 1/2 (phospho Tyr204) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



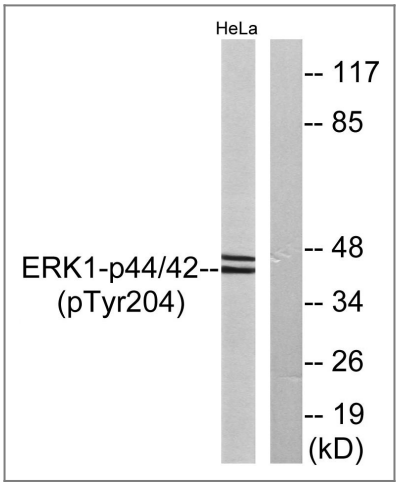
The picture was kindly provided by our customer



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4℃ overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using p44/42 MAP Kinase (Phospho-Tyr204) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with EGF 200ng/ml 30', using p44/42 MAP Kinase (Phospho-Tyr204) Antibody. The lane on the right is blocked with the phospho peptide.

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 to access additional product information:
ERK 1/2 (Phospho Tyr204) Rabbit pAb

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