ERK 1/2 (Phospho Thr202) Rabbit pAb

CatalogNo: YP0100 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

IF 1:50-200
WB 1:500-2000
IHC 1:50-300
ELISA 1:5000-20000

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 Thr202. AA range:169-218

Specificity Phospho-ERK 1/2 (T202) Polyclonal Antibody detects endogenous levels of ERK 1/2 protein only when phosphorylated at T202.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):FLtEY

Target Information

Gene name MAPK1/MAPK3

Protein Name Mitogen-activated protein kinase 3

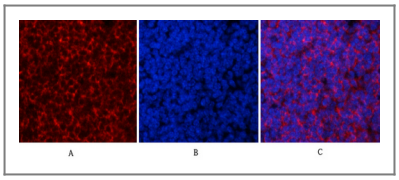
Organism	Gene ID	UniProt ID
Human	5594; 5595;	P27361; P28482;
Mouse	26417; 26413;	Q63844;
Rat	50689; 116590;	P21708; P63086;

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) . .

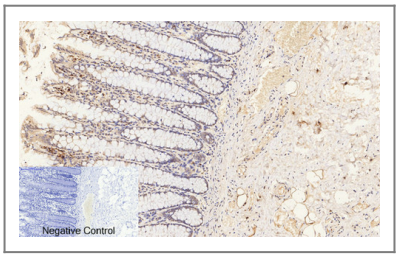
Tissue specificity Epithelium ,Eye ,Hepatoma ,Human cervix ,Lymph ,

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. ,

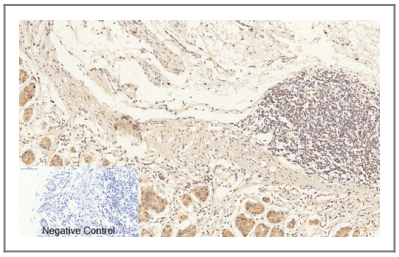
Validation Data



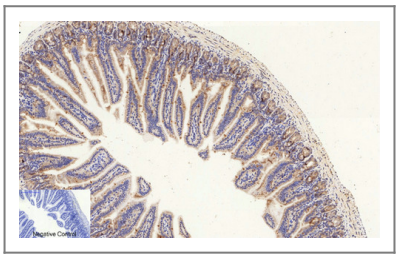
Immunofluorescence analysis of mouse-spleen tissue. 1,ERK 1/2 (phospho Thr202) Polyclonal Antibody (red) was diluted at 1:200 (4℃ overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min).3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



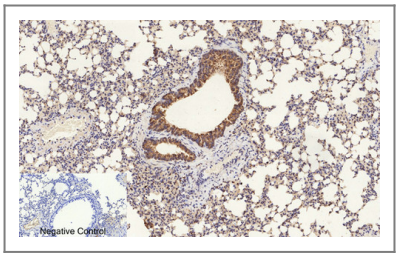
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,ERK 1/2 (phospho Thr202) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



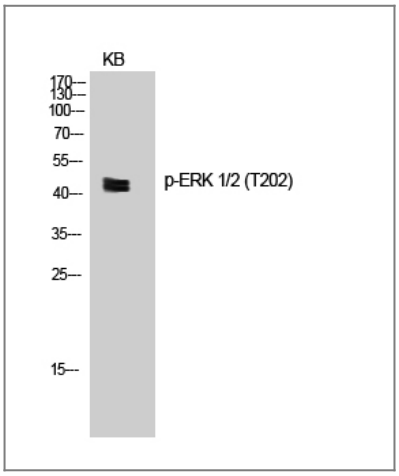
Immunohistochemical analysis of paraffin-embedded Human-stomach tissue. 1,ERK 1/2 (phospho Thr202) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



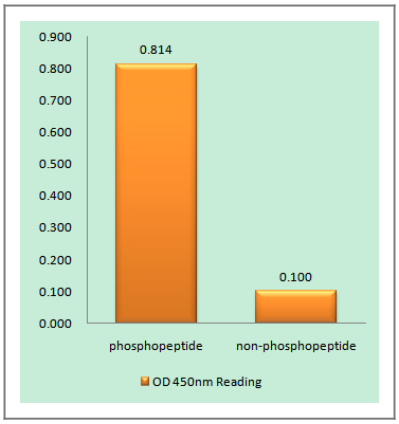
Immunohistochemical analysis of paraffin-embedded Mouse-colon tissue. 1,ERK 1/2 (phospho Thr202) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



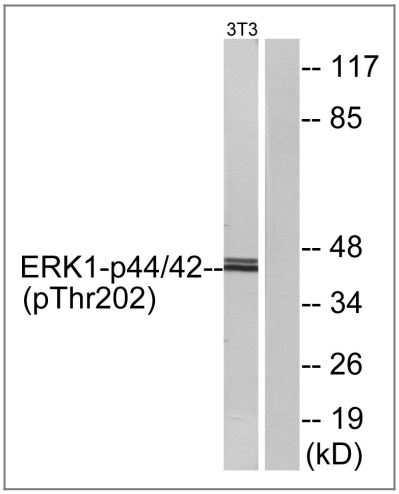
Immunohistochemical analysis of paraffin-embedded Mouse-lung tissue. 1,ERK 1/2 (phospho Thr202) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



Western Blot analysis of KB cells using Phospho-ERK 1/2 (T202) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using p44/42 MAP Kinase (Phospho-Thr202) Antibody



Western blot analysis of lysates from NIH/3T3 cells treated with IFN 2500U/ml 30', using p44/42 MAP Kinase (Phospho-Thr202) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information: **ERK 1/2 (Phospho Thr202) Rabbit pAb**

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