

## Rabbit ERK 1/2 Polyclonal Antibody | anti-ERK1/2 antibody

ERK 1/2 (Phospho-Tyr222/205) Rabbit Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA30747  | Rabbit | Human, Mouse, Rat | Immunofluorescence, Immunocytochemistry, Western Blot, Immunohistochemistry, ELISA |

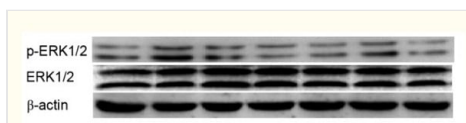
### PRODUCT SYNONYMS

ERK 1/2; Polyclonal Antibody; ERK 1/2 (Phospho-Tyr222/205) Rabbit Polyclonal Antibody; MAPK1; ERK2; PRKM1; PRKM2; Mitogen-activated protein kinase 1; MAP kinase 1; MAPK 1; ERT1; Extracellular signal-regulated kinase 2; ERK-2; MAP kinase isoform p42; p42-MAPK; Mitogen-activated protein kinase 2; MAP kinase 2; MAPK 2; MAPK3; ER; BH6842; anti-ERK1/2 antibody

### PRODUCT SPECIFICATIONS

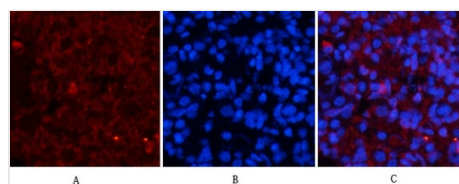
|                                                  |                                                                                                                                   |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                            |
| Reactivity                                       | Human, Mouse, Rat                                                                                                                 |
| Clonality                                        | Polyclonal                                                                                                                        |
| Specificity                                      | Phospho-ERK 1/2 (Y222/205) Polyclonal Antibody detects endogenous levels of ERK 1/2 protein only when phosphorylated at Y222/205. |
| Purity/Purification                              | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.             |
| Form/Format                                      | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                           |
| Concentration                                    | 1mg/ml (varies by lot)                                                                                                            |
| Applicable Applications for anti-ERK1/2 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), IHC (Immunohistochemistry), ELISA                          |
| Application Notes                                | IF: 1:50-200<br>WB: 1:500-2000<br>IHC: 1:50-300<br>IHC: 1:50-300                                                                  |
| Immunogen                                        | Synthesized phospho-peptide around the phosphorylation site of human ERK 1/2 (phospho Tyr222/205)                                 |
| Modification                                     | Phospho Specific                                                                                                                  |
| Preparation and Storage                          | Store at -20 degree C/1 year                                                                                                      |

### IMAGES



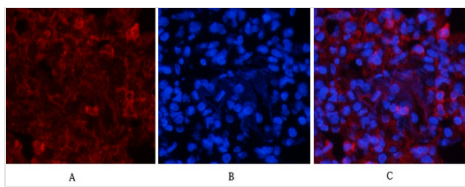
#### Application Data

Xu, Yini, et al. "Inhibitory effects of oxymatrine on TGF-β1-induced proliferation and abnormal differentiation in rat cardiac fibroblasts via the p38MAPK and ERK1/2 signaling pathways." Molecular medicine reports 16.4 (2017): 5354-5362.



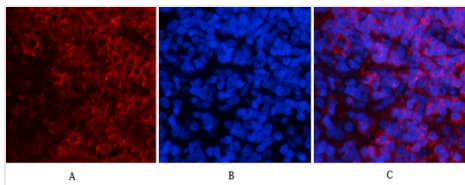
#### IF (Immunofluorescence)

Immunofluorescence analysis of rat-lung tissue. 1, ERK 1/2 (phospho Tyr222/205) Polyclonal Antibody (red) was diluted at 1:200 (4 degree C, overnight). 2, Cy3 labeled 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



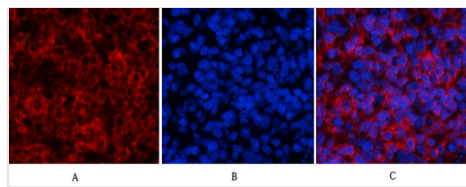
#### IF (Immunofluorescence)

Immunofluorescence analysis of rat-lung tissue. 1,ERK 1/2 (phospho Tyr222/205) Polyclonal Antibody(red) was diluted at 1:200(4 degree C,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



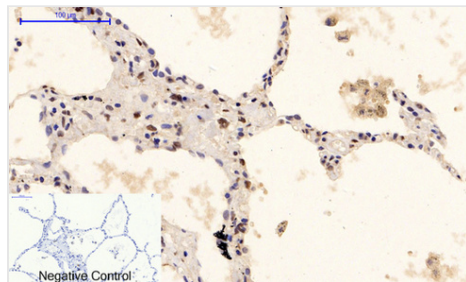
#### IF (Immunofluorescence)

Immunofluorescence analysis of rat-spleen tissue. 1,ERK 1/2 (phospho Tyr222/205) Polyclonal Antibody(red) was diluted at 1:200(4 degree C,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



#### IF (Immunofluorescence)

Immunofluorescence analysis of rat-spleen tissue. 1,ERK 1/2 (phospho Tyr222/205) Polyclonal Antibody(red) was diluted at 1:200(4 degree C,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



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded Human-lung tissue. 1,ERK 1/2 (phospho Tyr222/205) Polyclonal Antibody was diluted at 1:200(4 degree C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98 degree C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.

## ADDITIONAL INFORMATION

### Related Product Information for anti-ERK1/2 antibody

This gene encodes a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. One study also suggests that this protein acts as a transcriptional repressor independent of its kinase activity. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 66932916                                                                                                                                                                                                                   |
| NCBI GeneID                      | 5594                                                                                                                                                                                                                       |
| NCBI Accession #                 | NP_002736.3                                                                                                                                                                                                                |
| NCBI GenBank Nucleotide #        | NM_002745.4                                                                                                                                                                                                                |
| UniProt Accession #              | P28482; P27361                                                                                                                                                                                                             |
| Molecular Weight                 | 41,390 Da                                                                                                                                                                                                                  |
| NCBI Official Full Name          | mitogen-activated protein kinase 1                                                                                                                                                                                         |
| NCBI Official Synonym Full Names | mitogen-activated protein kinase 1                                                                                                                                                                                         |
| NCBI Official Symbol             | MAPK1                                                                                                                                                                                                                      |
| NCBI Official Synonym Symbols    | ERK; p38; p40; p41; ERK2; ERT1; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk                                                                                                                                                      |
| NCBI Protein Information         | mitogen-activated protein kinase 1; ERK-2; MAPK 2; p42-MAPK; MAP kinase 1; MAP kinase 2; MAP kinase isoform p42; protein tyrosine kinase ERK2; mitogen-activated protein kinase 2; extracellular signal-regulated kinase 2 |
| UniProt Protein Name             | Mitogen-activated protein kinase 1                                                                                                                                                                                         |

|                            |                                                                                 |
|----------------------------|---------------------------------------------------------------------------------|
| UniProt Gene Name          | MAPK1                                                                           |
| UniProt Synonym Gene Names | ERK2; PRKM1; PRKM2; MAP kinase 1; MAPK 1; ERK-2; p42-MAPK; MAP kinase 2; MAPK 2 |
| UniProt Entry Name         | MK01_HUMAN                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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