

## Rabbit ERK1 Polyclonal Antibody | anti-ERK1 antibody

Rabbit anti-ERK1 Antibody

| CATALOG # | HOST   | REACTIVITY             | APPLICATIONS                     |
|-----------|--------|------------------------|----------------------------------|
| AAA221334 | Rabbit | Human, Mouse, Rat, Pig | Immunofluorescence, Western Blot |

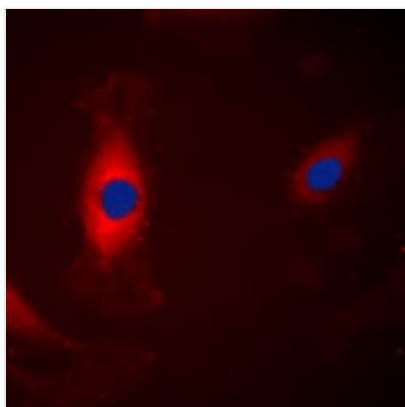
### PRODUCT SYNONYMS

ERK1; Polyclonal Antibody; Rabbit anti-ERK1 Antibody; PRKM3; Mitogen-activated protein kinase 3; MAP kinase 3; MAPK 3; ERT2; Extracellular signal-regulated kinase 1; ERK-1; Insulin-stimulated MAP2 kinase; MAP kinase isoform p44; p44-MAPK; Microtubule-associated protein 2 kinase; p44-ERK1; anti-ERK1 antibody

### PRODUCT SPECIFICATIONS

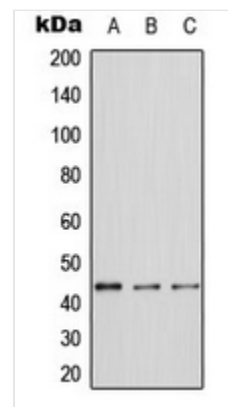
|                                                |                                                                                                                                     |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                              |
| Reactivity                                     | Human, Mouse, Rat, Pig                                                                                                              |
| Clonality                                      | Polyclonal                                                                                                                          |
| Purity/Purification                            | The antibody was purified by immunogen affinity chromatography.                                                                     |
| Form/Format                                    | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                           |
| Concentration                                  | 1mg/mL (varies by lot)                                                                                                              |
| Applicable Applications for anti-ERK1 antibody | IC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                |
| Immunogen                                      | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ERK1. The exact sequence is proprietary. |
| Preparation and Storage                        | Store at -20 degree C. Avoid repeated freeze/thaw cycles.                                                                           |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescent analysis of ERK1 staining in A431 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



#### WB (Western Blot)

Western blot analysis of ERK1 expression in A431 (A), NIH3T3 (B), PC12 (C) whole cell lysates.

ADDITIONAL INFORMATION

|                                                  |                    |
|--------------------------------------------------|--------------------|
| Product Categories/Family for anti-ERK1 antibody | Primary antibodies |
|--------------------------------------------------|--------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                             |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 91718897                                                                                                                                                                                                                    |
| NCBI GeneID                      | 5595                                                                                                                                                                                                                        |
| NCBI Accession #                 | NP_001035145.1                                                                                                                                                                                                              |
| NCBI GenBank Nucleotide #        | NM_001040056.2                                                                                                                                                                                                              |
| UniProt Accession #              | P27361; Q63844; P21708                                                                                                                                                                                                      |
| Molecular Weight                 | 43,136 Da                                                                                                                                                                                                                   |
| NCBI Official Full Name          | mitogen-activated protein kinase 3 isoform 2                                                                                                                                                                                |
| NCBI Official Synonym Full Names | mitogen-activated protein kinase 3                                                                                                                                                                                          |
| NCBI Official Symbol             | MAPK3                                                                                                                                                                                                                       |
| NCBI Official Synonym Symbols    | ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK                                                                                                                                          |
| NCBI Protein Information         | mitogen-activated protein kinase 3; MAPK 1; MAP kinase isoform p44; insulin-stimulated MAP2 kinase; extracellular signal-related kinase 1; extracellular signal-regulated kinase 1; microtubule-associated protein 2 kinase |
| UniProt Protein Name             | Mitogen-activated protein kinase 3                                                                                                                                                                                          |
| UniProt Gene Name                | MAPK3                                                                                                                                                                                                                       |
| UniProt Synonym Gene Names       | ERK1; PRKM3; MAP kinase 3; MAPK 3; ERK-1; p44-MAPK                                                                                                                                                                          |
| UniProt Entry Name               | MK03_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
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