

## Product datasheet for **TA397445S**

### MAPK1 Rabbit Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | ELISA, WB  |
| Recommended Dilution: | <b>WB:</b> 1 µg/mL<br><b>ELISA:</b> 1:40,000   |
| Reactivity:           | Human, Mouse, Rat  |
| Host:                 | Rabbit   |
| Clonality:            | Polyclonal   |
| Immunogen:            | Anti-ERK2 Antibody was produced in rabbits by repeated immunizations with synthetic peptide corresponding to amino acid residues near the C-terminus conjugated to KLH.  |
| Specificity:          | This affinity purified antibody is directed against human ERK2 protein. Anti-ERK2 antibody was prepared from monospecific antiserum by immunoaffinity chromatography using synthetic peptide coupled to agarose beads followed by cross adsorption to remove any unwanted reactivity. Cross reactivity is expected to occur with human, mouse and rat based on sequence identity of the peptide immunogen. This antibody does not react with the ERK1 isoform.                                     |
| Formulation:          | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2   |
| Concentration:        | 1.03 mg/mL - lot specific  |
| Conjugation:          | Unconjugated   |
| Storage:              | Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing. |
| Stability:            | Expiration date is one (1) year from date of receipt.  |
| Database Link:        | <a href="#">P28482</a>   |



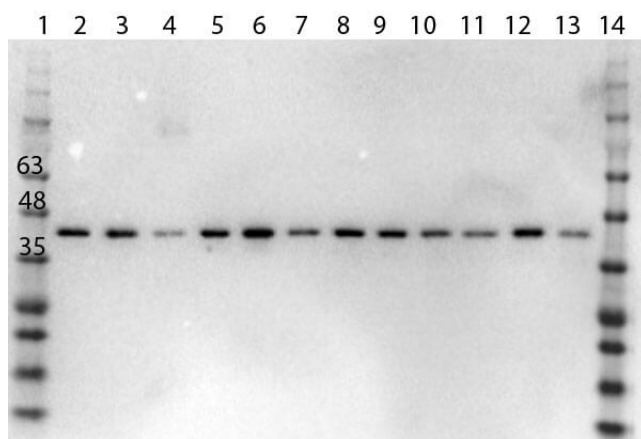
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**Background:** ERK2 antibodies detect the ERK2 isoform. Mitogen activated protein kinase 1, also known as MAPK1, ERK, or ERK2, is an integral component of the MAP kinase cascade that regulates cell growth and differentiation. ERK1 and ERK2 are activated by MEK1 and MEK2 in the B-raf signaling pathway resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Human ERK1 and ERK2 are 84% identical in sequence and share common functionality in cells. Anti-ERK2 antibody is ideal for investigators involved in Neuroscience, Cell Signaling and Cancer Research.

**Synonyms:** rabbit anti-ERK2 antibody, MAPK1, ERK 2, ERK-2, P42MAPK, PRKM1, PRKM2, MAPK 2, MAP kinase 2, Mitogen-activated protein kinase 2, p42-MAPK, MAP kinase isoform p42, Extracellular signal-regulated kinase 2, ERT1, MAP kinase 1, Mitogen-activated protein kinase 1

**Note:** Anti-ERK 2 (RABBIT) antibody has been tested in ELISA and Western Blotting. Specific conditions of reactivity should be optimized by the end user. Expect a band of approximately 41 kDa.

### Product images:



Western Blot of Rabbit anti-ERK2 antibody.  
Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 1: HEK293 lysate (p/n W09-000-365). Lane 2: HeLa Lysate (p/n W09-000-363). Lane 3: MCF-7 Lysate (p/n W09-000-360). Lane 4: Jurkat Lysate (p/n W09-000-370). Lane 5: A431 Lysate (p/n W09-000-361). Lane 6: A549 Lysate (p/n W09-001-372). Lane 7: LNCap Lysate (p/n W09-001-GJ9). Lane 8: MOLT-4 Lysate (p/n W09-001-GK2). Lane 9: Ramos Lysate (p/n W09-000-GK4). Lane 10: Raji Lysate (p/n W09-001-368). Lane 11: A-172 Lysate (p/n W09-001-GL5). Lane 12: NIH/3T3 Lysate (p/n W10-000-358). Load: 10 µg per lane. Primary antibody: Anti-ERK2 C-Term Antibody at 1 µg/mL overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS (p/n MB-082) for 30 min at RT. Predicted/Observed size: 44kDa for ERK2.