

AP0974

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# Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit mAb

Catalog No.: AP0974 **Recombinant** **56 Publications**

## Basic Information

### Observed MW

42kDa/44kDa

### Calculated MW

42kDa/44kDa

### Category

Monoclonal Antibody

### Applications

WB,IHC-P,ELISA

### Cross-Reactivity

Human,Mouse,Rat

### CloneNo number

ARC1595

## Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008]

## Recommended Dilutions

**WB** 1:1000 - 1:3000

**IHC-P** 1:50 - 1:200

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

5595/5594

### Swiss Prot

P27361/P28482

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

ERK-1; ERK1; ERT2; HS44KDAP; HUMKER1A; P44ERK1; P44MAPK; PRKM3; p44-ERK1; p44-MAPK; Phospho-ERK1-T202/Y204 + ERK2-T185/Y187

## Contact

 [www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

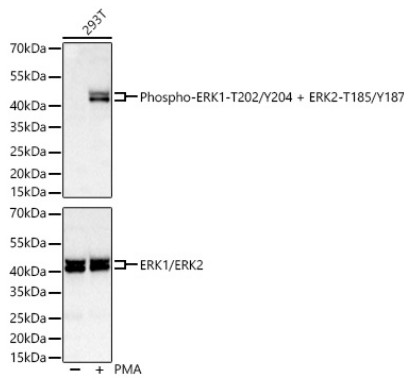
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

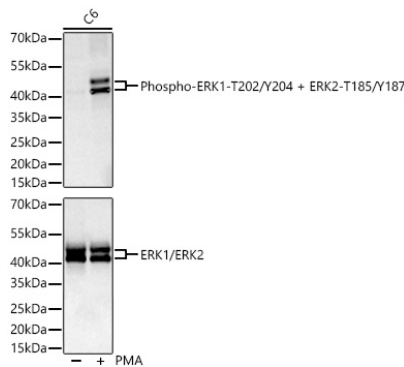
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



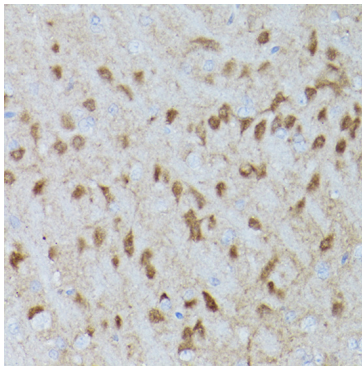
Western blot analysis of lysates from 293T cells using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit mAb (AP0974) at 1:1000 dilution (upper) or ERK1/2 Rabbit mAb (A4782) at 1:3000 dilution (lower) incubated overnight at 4°C. 293T cells were treated with PMA (100 nM) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.  
Blocking buffer: 3 % nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.

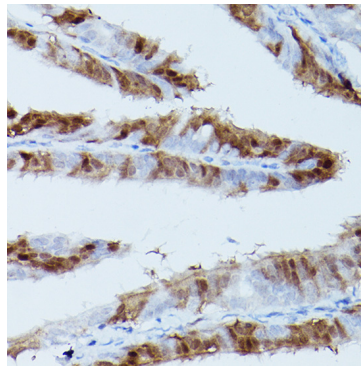


Western blot analysis of lysates from C6 cells using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit mAb (AP0974) at 1:1000 dilution (upper) or ERK1/2 Rabbit mAb (A4782) at 1:3000 dilution (lower) incubated overnight at 4°C. C6 cells were treated with PMA (200 nM) at 37°C for 10 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.  
Blocking buffer: 3 % nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 45s.



Immunohistochemistry analysis of paraffin-embedded Rat brain using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit mAb (AP0974) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat fallopian tube using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit mAb (AP0974) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.