

# Phospho-ERK1-T202 + ERK2-T185 Rabbit mAb

Catalog No.: AP0485

Recombinant

36 Publications

## Basic Information

### Observed MW

42 kDa/44 kDa

### Calculated MW

42 kDa/44 kDa

### Category

Primary antibody

### Applications

WB, IHC-P, ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0100

## Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.

## Recommended Dilutions

<b>WB</b>	1:2000 - 1:10000
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<b>IHC-P</b>	1:50 - 1:200
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<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.
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## Immunogen Information

### Gene ID

5594/5595

### Swiss Prot

P28482/P27361

### Immunogen

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

### Synonyms

H3.4; H3/g; H3FT; H3t; H3/A; H3FA; ERK1 / ERK2; Phospho-ERK1-T202 + ERK2-T185

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

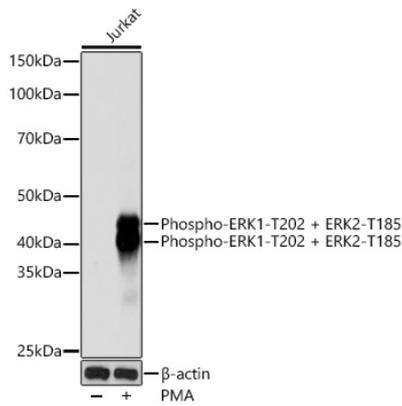
Affinity purification

### Storage

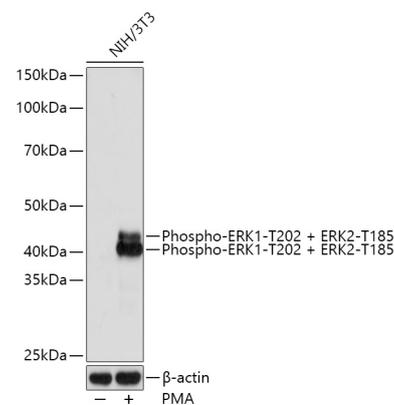
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

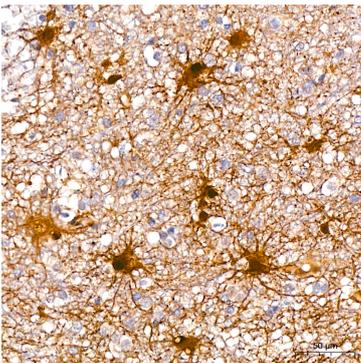
## Validation Data



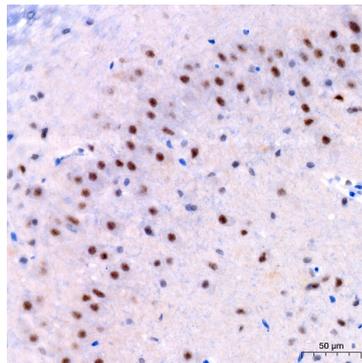
Western blot analysis of lysates from Jurkat cells, using Phospho-ERK1-T202 + ERK2-T185 Rabbit mAb (AP0485) at 1:1000 dilution. Jurkat cells were treated with PMA/TPA (200 nM) at 37°C for 10 minutes. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Western blot analysis of lysates from NIH/3T3 cells, using Phospho-ERK1-T202 + ERK2-T185 Rabbit mAb (AP0485) at 1:1000 dilution. NIH/3T3 cells were treated with PMA/TPA (200 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: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1S.



Immunohistochemistry analysis of paraffin-embedded Human brain using Phospho-ERK1-T202 + ERK2-T185 Rabbit mAb (AP0485) at dilution of 1:200 (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 brain using Phospho-ERK1-T202 + ERK2-T185 Rabbit mAb (AP0485) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.