

Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb

Catalog No.: AP0472 **40 Publications**

Basic Information

Catalog No.

AP0472

Observed MW

42kDa/44kDa

Calculated MW

36kDa/41kDa/38kDa/40kDa/43kDa

Category

Primary antibody

Applications

WB, IHC, IF, IP

Cross-Reactivity

Human, Mouse, Rat

Recommended Dilutions

WB	1:500 - 1:2000
IHC	1:50 - 1:100
IF	1:50 - 1:200
IP	1:50 - 1:100

Contact

 | www.abclonal.com

Background

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 for this gene. [provided by RefSeq, Jan 2014]

Immunogen Information

Gene ID

5594/5595

Swiss Prot

P28482/P27361

Immunogen

A synthetic phosphorylated peptide around T185/Y187 of human ERK2 (NP_002736.3).

Synonyms

MAPK1/MAPK3

Product Information

Source

Rabbit

Isotype

IgG

Purification

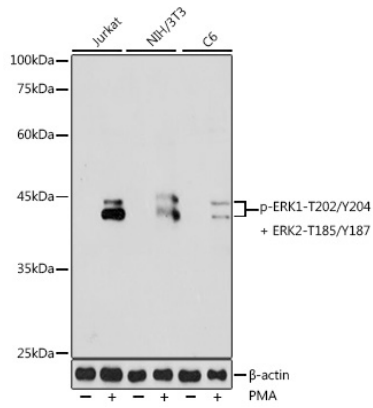
Affinity purification

Storage

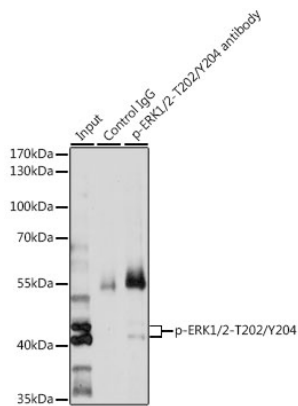
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

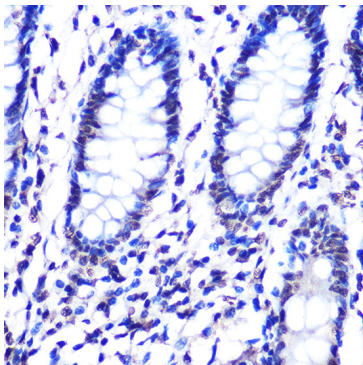
Validation Data



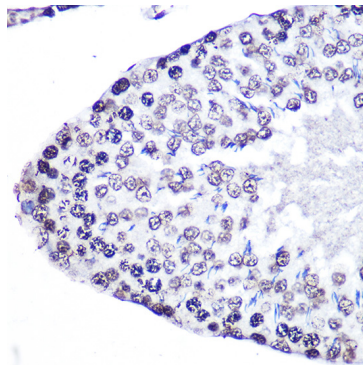
Western blot analysis of extracts of various cell lines, using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 antibody (AP0472) at 1:1000 dilution. Jurkat cells and NIH/3T3 cells and C6 cells were treated by PMA/TPA (200 nM) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



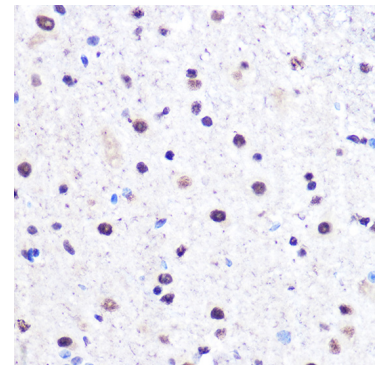
Immunoprecipitation analysis of 200ug extracts of Jurkat cells, using 3 ug Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 pAb (AP0472). Western blot was performed from the immunoprecipitate using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 pAb (AP0472) at a dilution of 1:1000. Jurkat cells were treated by PMA/TPA (200 nM) at 37°C for 10 minutes.



Immunohistochemistry of paraffin-embedded human colon using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb (AP0472) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded rat testis using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb (AP0472) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse spinal cord using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb (AP0472) at dilution of 1:100 (40x lens).