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

Catalog No.: AP0472 **119 Publications**

Basic Information

Observed MW
44kDa/ 42kDa/

Calculated MW
36kDa/41kDa/38kDa/40kDa/43kDa

Category
Primary antibody

Applications
ELISA,WB,IF/ICC

Cross-Reactivity
Human, Mouse, Rat

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]

Recommended Dilutions

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID
5594/5595

Swiss Prot
P28482/P27361

Immunogen
A synthetic phosphorylated peptide around T185 & Y187 of human ERK2MAPK1 (NP_002736.3).

Synonyms
MAPK1/MAPK3; Phospho-ERK1-T202/Y204 + ERK2-T185/Y187

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

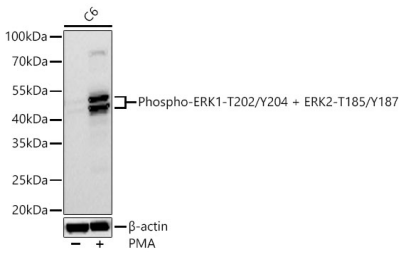
Source
Rabbit

Isotype
IgG

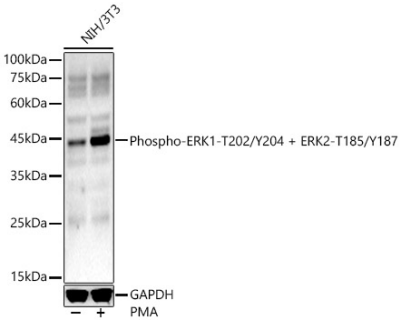
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from C6 cells using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb (AP0472) at 1:1000 dilution incubated overnight at 4℃. C6 cells were treated by PMA(200 nM) at 37℃ 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.



Western blot analysis of lysates from NIH/3T3 cells using Phospho-ERK1-T202/Y204 + ERK2-T185/Y187 Rabbit pAb (AP0472) at 1:1000 dilution. NIH/3T3 cells were treated by PMA/TPA (200 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180s.