

# Phospho-ERK1-Y204 Rabbit pAb

Catalog No.: AP0235

11 Publications

## Basic Information

**Observed MW**

42kDa/44kDa

**Calculated MW**

43kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IHC-P, IF/ICC, IP

**Cross-Reactivity**

Human, Mouse, Rat

## 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.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IHC-P** 1:50 - 1:100**IF/ICC** 1:100 - 1:200**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts of  
whole cells

## Immunogen Information

**Gene ID**

5595

**Swiss Prot**

P27361

**Immunogen**

A synthetic phosphorylated peptide around Y204 of human ERK1 (NP\_002737.2).

**Synonyms**

ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK; Phospho-ERK1-Y204

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

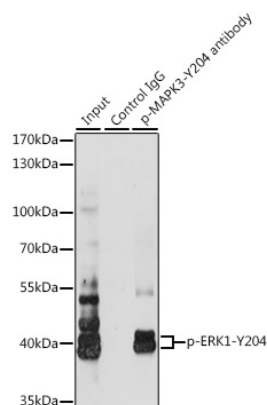
Affinity purification

**Storage**

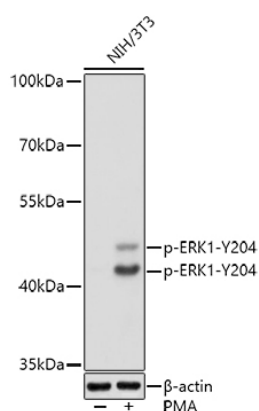
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

## Validation Data



Immunoprecipitation analysis of 200 µg extracts of Jurkat cells, using 3 µg Phospho-ERK1-Y204 pAb (AP0235). Western blot was performed from the immunoprecipitate using Phospho-ERK1-Y204 pAb (AP0235) at a dilution of 1:1000. Jurkat cells were treated by PMA/TPA (200 nM) at 37°C for 10 minutes.



Western blot analysis of lysates from NIH/3T3 cells, using Phospho-ERK1-Y204 Rabbit pAb (AP0235) at 1:1000 dilution. NIH/3T3 cells were treated by PMA/TPA (200 nM) at 37°C for 30 minutes after serum-starvation overnight.

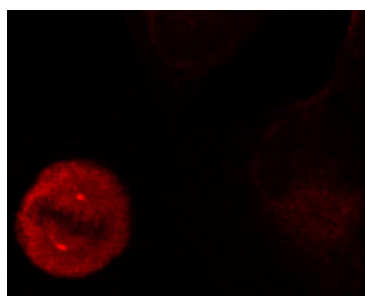
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

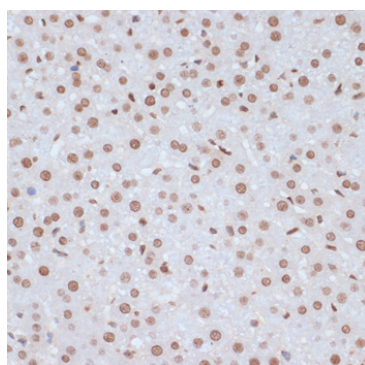
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

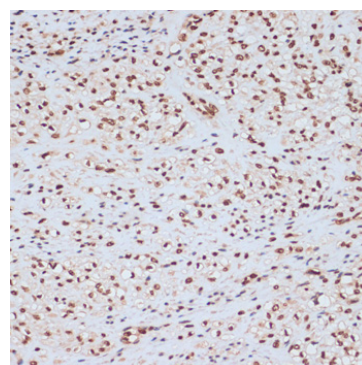
Exposure time: 1s.



Immunofluorescence analysis of methanol-fixed HeLa cells showing centrosome and nuclear staining using Phospho-ERK1-Y204 Rabbit pAb (AP0235).



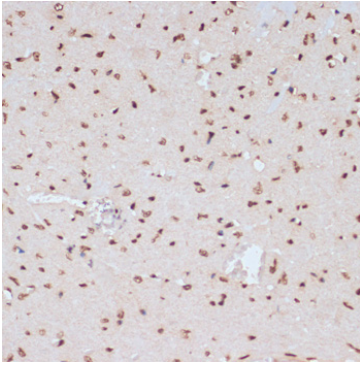
Immunohistochemistry analysis of Phospho-ERK1-Y204 in paraffin-embedded rat liver using Phospho-ERK1-Y204 Rabbit pAb (AP0235) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Phospho-ERK1-Y204 in paraffin-embedded human uterus using Phospho-ERK1-Y204 Rabbit pAb (AP0235) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## Validation Data

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Immunohistochemistry analysis of Phospho-ERK1-Y204 in paraffin-embedded mouse heart using Phospho-ERK1-Y204 Rabbit pAb (AP0235) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.