

Datasheet for ABIN7206468

**anti-ERK1/2 antibody****2** Images[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	ERK1/2 (MAPK1/3)
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ERK1/2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	P44/42 MAPK (ERK1/2) Monoclonal Antibody
Immunogen:	Synthetic Peptide
Isotype:	IgG1
Purification:	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen

## Target Details

Target:	ERK1/2 (MAPK1/3)
Alternative Name:	P44/42 MAPK (ERK1/2) ( <a href="#">MAPK1/3 Products</a> )
Background:	Mouse Anti-P44/42 MAPK (ERK1/2) Monoclonal Antibody, MAPK3, ERK1, PRKM3, Mitogen-activated protein kinase 3, MAP kinase 3, MAPK 3, ERT2, Extracellular signal-regulated kinase 1, ERK-1, Insulin-stimulated MAP2 kinase, MAP kinase isoform p44, p44-MAPK, Microtubule-

## Target Details

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associated protein 2 kinase, p,MAPK1 (mitogen-activated protein kinase 1) 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 MAPK1.,P44

Gene ID: 5594, 5595

## Application Details

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Application Notes: Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:1000-1:2000), IHC-P (1:50-1:100).

Restrictions: For Research Use only

## Handling

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Format: Liquid

Concentration: 1 mg/mL

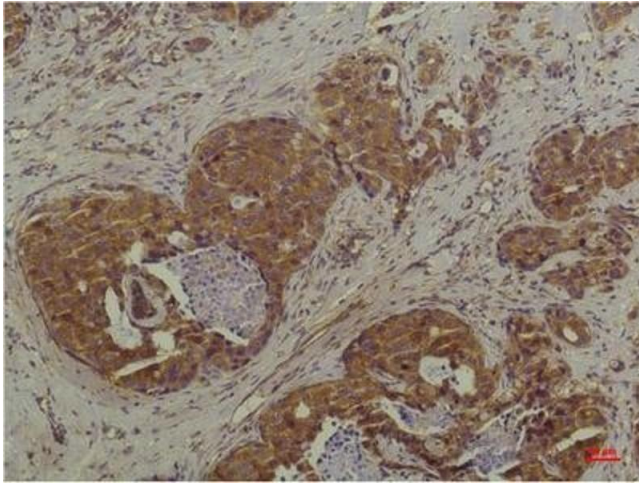
Buffer: PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

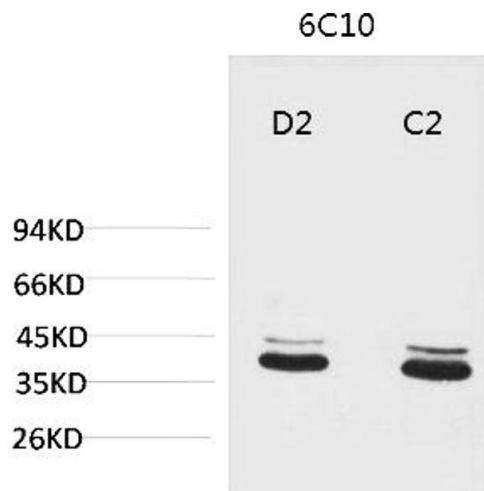
Storage: -20 °C

Storage Comment: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.



### Immunohistochemistry

**Image 1.** Immunohistochemical analysis of paraffin-embedded Human Breast Carcinoma using P44/42 MAPK (ERK1/2) Mouse mAb diluted at 1:200.



### Western Blotting

**Image 2.** Western blot analysis of 1) Mouse Brain Tissue, 2) Rat Brain Tissue with P44/42 MAPK (ERK1/2) Mouse mAb diluted at 1:2000.