

**Product Name: ERK1/2 (9A4) Mouse Monoclonal Antibody**  
**Catalog #: AMM03623**

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## Summary

<b>Production Name</b>	ERK1/2 (9A4) Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC-P
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
<b>Purification</b>	Affinity Purification

## Immunogen

<b>Gene Name</b>	MAPK3/MAPK1 MAPK3; ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-
<b>Alternative Names</b>	ERK1; p44-MAPK; MAPK1; ERK; p38; p40; p41; ERK2; ERT1; ERK-2; MAPK2; PRKM1; PRKM2; P42MAPK; p41mapk; p42-MAPK.
<b>Gene ID</b>	5595/5594
<b>SwissProt ID</b>	P27361/P28482.

## Application

<b>Dilution Ratio</b>	WB: 1:500-1:1000 IHC: 1:50-1:100
<b>Molecular Weight</b>	Calculated MW: 44,42 kDa; Observed MW: 44,42 kDa

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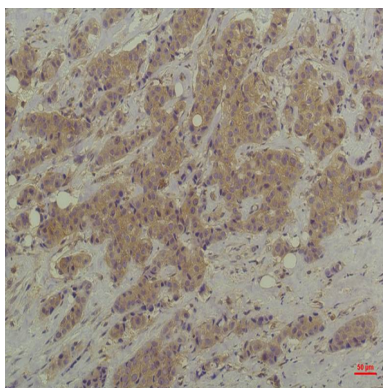
## Background

Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. Depending on the cellular context, the MAPK/ERK cascade mediates diverse biological functions such as cell growth, adhesion, survival and differentiation through the regulation of transcription, translation, cytoskeletal rearrangements.

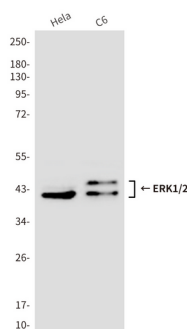
## Research Area

Cell Biology

## Image Data



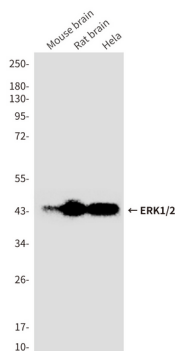
Immunohistochemistry analysis of paraffin-embedded Human Breast Carcinoma using ERK1/2 (9A4) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of ERK1/2 (9A4) in HeLa, C6 lysates using ERK1/2 (9A4) antibody

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Western blot analysis of ERK1/2 (9A4) in mouse brain, rat brain , Hela lysates using ERK1/2 (9A4) antibody

### **Note**

For research use only.