

**Product Name: ERK1/2 (1B4) Mouse Monoclonal Antibody**  
**Catalog #: AMM00660**

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## Summary

|                        |  |
|------------------------|--|
| <b>Production Name</b> | ERK1/2 (1B4) Mouse Monoclonal Antibody |
| <b>Description</b>     | Primary 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 Antibody  |
| <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 Purified  |

## Immunogen

|                          |  |
|--------------------------|--|
| <b>Gene Name</b>         | MAPK3/MAPK1<br>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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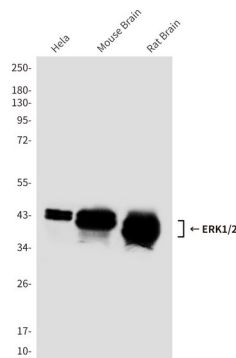
## Background

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.

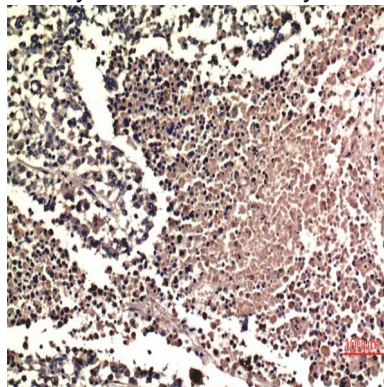
## Research Area

Cell Biology

## Image Data

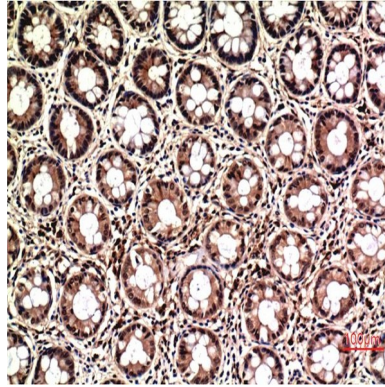


Western blot analysis of ERK1/2 (1B4) in HeLa lysates, mouse Brain lysates, rat Brain lysates using ERK1/2 antibody.



Immunohistochemistry analysis of paraffin-embedded Human Lung Carcinoma Tissue using ERK1/2 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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Immunohistochemistry analysis of paraffin-embedded Human Colon Carcinoma Tissue using ERK1/2 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

**Note**

For research use only.