

# ERK 1/2 Monoclonal Antibody

Catalog Number:E-AB-22142



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

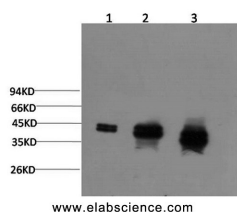
## Description

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| <b>Reactivity</b>   | Human,Mouse,Rat                                                              |
| <b>Immunogen</b>    | Synthetic Peptide of ERK1/2                                                  |
| <b>Host</b>         | Mouse                                                                        |
| <b>Isotype</b>      | IgG                                                                          |
| <b>Clone</b>        | Clone:7D3                                                                    |
| <b>Purification</b> | Protein A purification                                                       |
| <b>Conjugation</b>  | Unconjugated                                                                 |
| <b>Formulation</b>  | PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4 |

## Applications Recommended Dilution

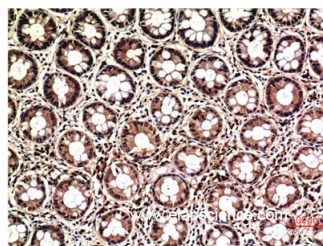
|            |             |
|------------|-------------|
| <b>WB</b>  | 1:1000-2000 |
| <b>IHC</b> | 1:100-200   |

## Data



Western Blot analysis of 1) HeLa, 2) Mouse brain, 3) Rat brain using ERK 1/2 Monoclonal Antibody at dilution of 1:2000.

**Observed Mw:44,42kDa**



Immunohistochemistry of paraffin-embedded Human colon carcinoma tissue using ERK 1/2 Monoclonal Antibody at dilution of 1:200.

## Preparation & Storage

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

## Background

Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4) and ARHGEF2. Acts as a transcriptional repressor. Binds to a [GC]AAA[GC] consensus sequence. Repress the expression of interferon gamma-induced genes. Seems to bind to the promoter of CCL5, DMP1, IFIH1, IFITM1, IRF7, IRF9, LAMP3, OAS1, OAS2, OAS3 and STAT1. Transcriptional activity is independent of kinase activity.

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