

## Recombinant Phospho-MEK1 (Thr292) Monoclonal Antibody

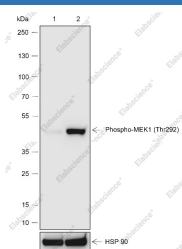
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**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

| Description  |                                                                                       |
|--------------|---------------------------------------------------------------------------------------|
| Reactivity   | Human                                                                                 |
| Immunogen    | A synthetic phosphopeptide corresponding to residues surrounding Thr292 of human MEK1 |
| Host         | Rabbit                                                                                |
| Isotype      | Rabbit IgG                                                                            |
| Clone        | C331718                                                                               |
| Purification | Protein A purified                                                                    |
| Buffer       | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.                       |

| Applications | Recommended Dilution |
|--------------|----------------------|
| WB           | 1:1000               |

### Data



Western Blot with Phospho-MEK1 (Thr292) Monoclonal Antibody at dilution of 1:1000. Lane 1: Jurkat, Lane 2: Jurkat + Calyculin A (50 ng/ml, 20min)

**Observed-MW:43 kDa**

**Calculated-MW:43 kDa**

### Preparation & Storage

|          |                                                                 |
|----------|-----------------------------------------------------------------|
| Storage  | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| Shipping | Ice bag                                                         |

### Background

MEK1 and MEK2, also called MAPK or Erk kinases, are dual-specificity protein kinases that function in a mitogen activated protein kinase cascade controlling cell growth and differentiation. Activation of MEK1 and MEK2 occurs through phosphorylation of two serine residues at positions 217 and 221, located in the activation loop of subdomain VIII, by Raf-like molecules. MEK1/2 is activated by a wide variety of growth factors and cytokines and also by membrane depolarization and calcium influx. Constitutively active forms of MEK1/2 are sufficient for the transformation of NIH/3T3 cells or the differentiation of PC-12 cells. MEK activates p44 and p42 MAP kinase by phosphorylating both threonine and tyrosine residues at sites located within the activation loop of kinase subdomain VIII.

### For Research Use Only

Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017

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