

Product datasheet

anti-MAP3K1 mouse monoclonal, EBS-T-008, purified

Short overview

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| Cat. No. | 691675 |
| Quantity | 1 ml (100 µg/ml) |
| Concentration | 100 µg/ml |

Product description

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|----------------------|--|
| Host | Mouse |
| Antibody Type | Monoclonal |
| Isotype | IgG2a kappa |
| Clone | EBS-T-008 |
| Immunogen | Partial recombinant MAP3K1 (aa1211-1310) |
| Formulation | PBS with 0.02% sodium azide |
| UniprotID | Q13233 (Human) |
| Synonym | Mitogen-activated protein kinase kinase kinase 1, EC 2.7.11.25, MAPK/ERK kinase kinase 1, MEK kinase 1, MEKK 1, MAP3K1, MAPKKK1, MEKK, MEKK1 |
| Conjugate | Unconjugated |
| Purification | Affinity chromatography |
| Storage | 2-8°C |
| Intended use | Research use only |
| Application | ELISA, FACS, ICC/IF, IHC, WB |
| Reactivity | Human |

Applications

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| ELISA | Assay dependent |
| Flow Cytometry (FACS) | 0.5-1.0 µg/million cells in 0.1 ml |
| Immunocytochemistry (ICC) | Assay dependent |
| Immunohistochemistry (IHC) - frozen | 1:100-1:200 (0.5-1.0 µg/ml) |
| Immunohistochemistry (IHC) - paraffin | 1:100-1:200 (0.5-1.0 µg/ml; microwave treatment in 10 mM Tris with 1 mM EDTA pH 9.0 recommended) |
| Western Blot (WB) | 1:100-1:200 (0.5-1.0 µg/ml) |

Background

MAPKs are involved in directing cellular responses to a diverse array of potentially harmful stimuli, such as mitogens, osmotic stress, heat shock, proinflammatory cytokines, but also growth factors (mammals). Possibly located exclusively in the cell nucleus, they regulate cell functions including proliferation, gene expression, differentiation, mitosis, cell survival, and apoptosis. In order to become active, they require usually multiple phosphorylation events in their activation loops, including phosphorylation by MAP2 kinases (Ste-7 kinases), which in turn are phosphorylated by the MAP3 kinase family, of which many are located at the cell membrane. Thus through this pathway, stimuli can effectively

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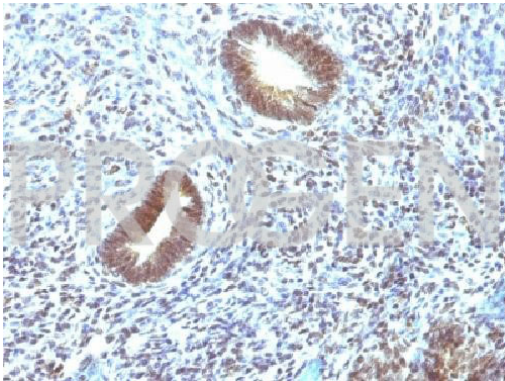
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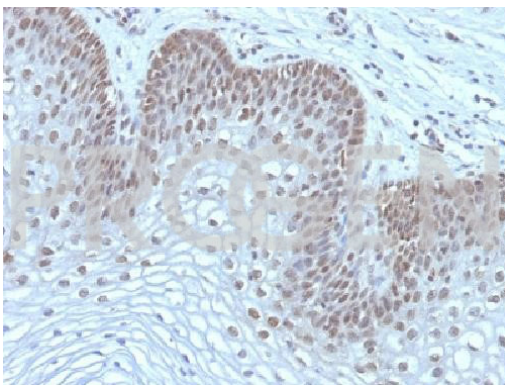
be conveyed from the cell membrane to the nucleus. Inactivation of MAPKs takes place by several phosphorylases, including dedicated phosphorylases.

Positive control: A431, HeLa or HL-60 cells or liver tissue.

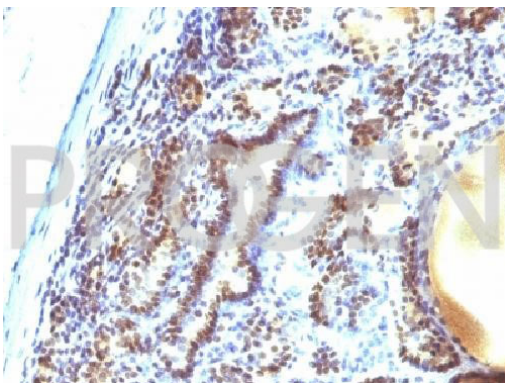
Product images



Human uterine carcinoma



Human cervical cancer



Human thyroid carcinoma