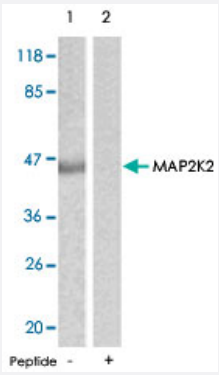
# MAP2K2 polyclonal antibody

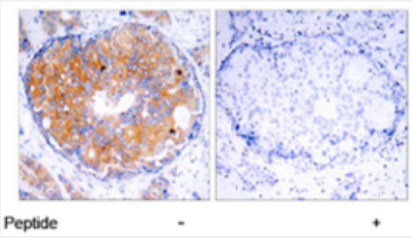
Catalog # PAB25926 Size 100 ug

## Applications




### Western Blot (Cell lysate)

Western blot analysis of extracts from ovary cancer cells using MAP2K2 polyclonal antibody (Cat # PAB25926).




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using MAP2K2 polyclonal antibody (Cat # PAB25926).

## Specification

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|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of MAP2K2. |
| **Immunogen** | A synthetic peptide corresponding to residues surrounding T394 of human MAP2K2. |
| **Sequence** | P-G-Tp-P-T |
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Form** | Liquid |

| | |
|---|---|
| **Purification** | Affinity chromatography |
| **Concentration** | 1 mg/mL |
| **Recommend Usage** | Immunohistochemistry (1:50-1:100)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

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## Gene Info — MAP2K2

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|---|---|
| **Entrez GeneID** | 5605 |
| **Protein Accession#** | P36507 |
| **Gene Name** | MAP2K2 |
| **Gene Alias** | FLJ26075, MAPKK2, MEK2, MKK2, PRKMK2 |
| **Gene Description** | mitogen-activated protein kinase kinase 2 |
| **Omim ID** | 115150 601263 |
| **Gene Ontology** | Hyperlink |

| | |
|---|---|
| **Gene Summary** | The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kina se kinase family. This kinase is known to play a critical role in mitogen growth factor signal transd uction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of th is kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutat ions in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterize d by heart defects, mental retardation, and distinctive facial features similar to those found in Noo nan syndrome. The inhibition or degradation of this kinase is also found to be involved in the path ogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been i dentified for this gene. [provided by RefSeq |
| **Other Designations** | ERK activator kinase 2\|MAP kinase kinase 2\|MAPK/ERK kinase 2\|dual specificity mitogen-activa ted protein kinase kinase 2\|mitogen-activated protein kinase kinase 2, p45 |

## Pathway

- Acute myeloid leukemia
- B cell receptor signaling pathway
- Bladder cancer
- Chronic myeloid leukemia
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Gap junction
- Glioma
- GnRH signaling pathway
- Insulin signaling pathway
- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Melanoma
- Natural killer cell mediated cytotoxicity

- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pathways in cancer
- Prion diseases
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway
- Thyroid cancer
- Toll-like receptor signaling pathway
- Vascular smooth muscle contraction
- VEGF signaling pathway

## Disease

- Abnormalities
- Ectodermal Dysplasia
- Genetic Predisposition to Disease
- Glioma
- Heart Defects
- LEOPARD Syndrome
- Mental Retardation
- Noonan Syndrome
- Skin Abnormalities
- Syndrome