

## Product datasheet for **AP01634PU-S**

### MEK2 (MAP2K2) pThr394 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	ELISA: 1/10000-1/20000. Western Blot: 1/500-1/1000. Immunohistochemistry: 1/50-1/200. Immunoprecipitation: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of MEK2 pThr394 protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 containing 15 mM Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	mitogen-activated protein kinase kinase 2
Database Link:	<a href="#">Entrez Gene 5605 Human P36507</a>



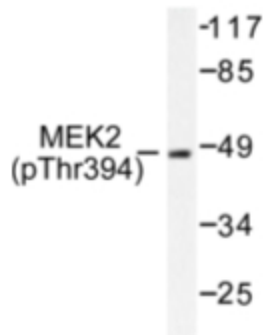
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**Background:**

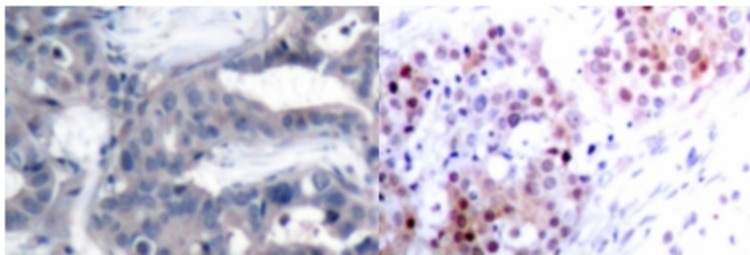
Cell proliferation and development are carefully controlled in *C. elegans*, with each cell following a nearly invariant pattern of differentiation. Vulval development in particular provides a useful model for studying how cell fate is determined. In addition to cell signaling pathways such as Notch and Ras pathways, the establishment of cell polarity and the asymmetric distribution of certain receptors are also critical for proper cell fate determination. In *C. elegans*, activated Ras initiates a cascade of sequential phosphorylation events, including the protein kinases Raf, MEK, and MAP kinase. The LET-60 Ras-mediated signal transduction pathway controls vulval induction. LIN-45, a member of the Raf family of serine/threonine kinases, and LIN-31, an HNF-3 homologue, act downstream of the Ras protein as necessary components for vulval differentiation. LIN-1 contains an ETS domain and is thought to be a substrate for the ERK subfamily of MAP kinases. The *C. elegans* proteins MEK-2, a MAP kinase kinase, and SUR-2 also function in the LET-60 Ras-mediated vulval induction.

**Synonyms:**

MAP kinase kinase 2, ERK activator kinase 2, MAPK/ERK kinase 2, MEK2, MKK2, MAP kinase kinase 2

**Product images:**

Western blot (WB) analysis of MEK2 pThr394 antibody in extracts from ovary cancer.



Immunohistochemistry (IHC) analysis of MEK2 pThr394 antibody in paraffin-embedded human breast carcinoma tissue.