

# MAP2K2 Antibody (T394)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7961d

## Product Information

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<b>Application</b>	IHC-P, IF, WB, E
<b>Primary Accession</b>	<a href="#">P36507</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB14015
<b>Calculated MW</b>	44424
<b>Antigen Region</b>	372-400

## Additional Information

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<b>Gene ID</b>	5605
<b>Other Names</b>	Dual specificity mitogen-activated protein kinase kinase 2, MAP kinase kinase 2, MAPKK 2, ERK activator kinase 2, MAPK/ERK kinase 2, MEK 2, MAP2K2, MEK2, MKK2, PRKMK2
<b>Target/Specificity</b>	This MAP2K2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 372-400 amino acids from human MAP2K2.
<b>Dilution</b>	IHC-P~~1:100~500 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	MAP2K2 Antibody (T394) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	MAP2K2
<b>Synonyms</b>	MEK2, MKK2, PRKMK2

## Function

Catalyzes the concomitant phosphorylation of a threonine and a tyrosine residue in a Thr-Glu-Tyr sequence located in MAP kinases. Activates the ERK1 and ERK2 MAP kinases (By similarity). Activates BRAF in a KSR1 or KSR2-dependent manner; by binding to KSR1 or KSR2 releases the inhibitory intramolecular interaction between KSR1 or KSR2 protein kinase and N-terminal domains which promotes KSR1 or KSR2-BRAF dimerization and BRAF activation (PubMed:[29433126](#)).

## Cellular Location

Cytoplasm. Membrane; Peripheral membrane protein. Note=Membrane localization is probably regulated by its interaction with KSR1.

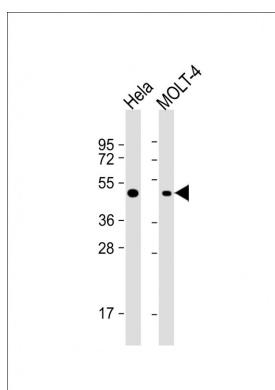
## Background

MAP2K2 is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. The inhibition or degradation of this kinase is found to be involved in the pathogenesis of Yersinia and anthrax.

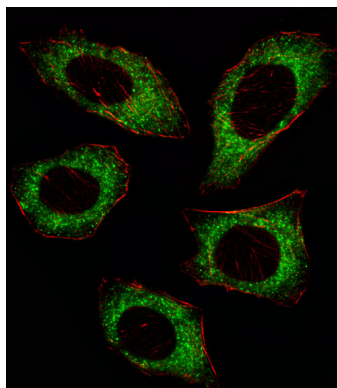
## References

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Tran, H., et al., Mol. Cell. Biol. 23(20):7177-7188 (2003).  
Li, S.P., et al., Cancer Res. 63(13):3473-3477 (2003).  
Li, Y., et al., J. Biol. Chem. 278(16):13663-13671 (2003).  
Liu, X., et al., J. Biol. Chem. 277(42):39312-39319 (2002).

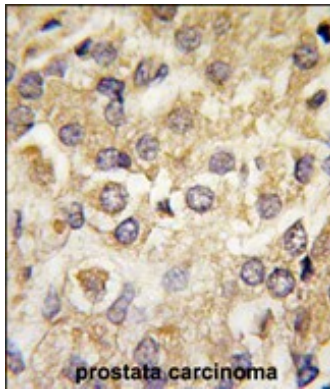
## Images



All lanes : Anti-MAP2K2 Antibody (T394) at 1:1000 dilution  
Lane 1: HeLa whole cell lysate Lane 2: MOLT-4 whole cell lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 44 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human prostata



carcinoma tissue reacted with MAP2K2 Antibody (T394) (Cat.#AP7961d), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.