

# Product datasheet for TA322542S

## MAP3K4 Rabbit Polyclonal Antibody

## **Product data:**

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Primary Antibodies	
Applications:	IHC	
Recommended Dilution:	IHC: 25-100 Positive control: Human ovarian cancer Predicted cell location: Cytoplasm	
Reactivity:	Human	
Host:	Rabbit	
lsotype:	lgG	
Clonality:	Polyclonal	
Immunogen:	Synthetic peptide corresponding to a region derived from 1282-1286 amino acids of human mitogen-activated protein kinase kinase kinase 4	
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol	
Purification:	Antigen affinity purification	
Conjugation:	Unconjugated	
Storage:	Store at -20°C as received.	
Stability:	Stable for 12 months from date of receipt.	
Gene Name:	mitogen-activated protein kinase kinase kinase 4	
Database Link:	<u>NP_005913</u> <u>Entrez Gene 4216 Human</u> <u>Q9Y6R4</u>	



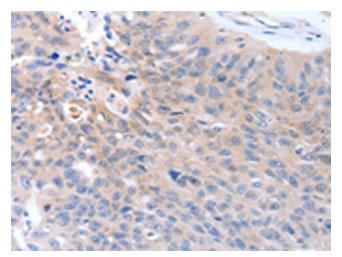
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### **MAP3K4** Rabbit Polyclonal Antibody – TA322542S

**Background:** The central core of each mitogen-activated protein kinase (MAPK) pathway is a conserved cascade of 3 protein kinases: an activated MAPK kinase kinase (MAPKKK) phosphorylates and activates a specific MAPK kinase (MAPKK); which then activates a specific MAPK. While the ERK MAPKs are activated by mitogenic stimulation; the CSBP2 and JNK MAPKs are activated by environmental stresses such as osmotic shock; UV irradiation; wound stress; and inflammatory factors. This gene encodes a MAPKKK; the MEKK4 protein; also called MTK1. This protein contains a protein kinase catalytic domain at the C terminus. The N-terminal nonkinase domain may contain a regulatory domain. Expression of MEKK4 in mammalian cells activated the CSBP2 and JNK MAPK pathways; but not the ERK pathway. In vitro kinase studies indicated that recombinant MEKK4 can specifically phosphorylate and activate PRKMK6 and SERK1; MAPKKs that activate CSBP2 and JNK; respectively but cannot phosphorylate PRKMK1; an MAPKK that activates ERKs. MEKK4 is a major mediator of environmental stresses that activate the CSBP2 MAPK pathway; and a minor mediator of the JNK pathway. Two alternatively spliced transcripts encoding distinct isoforms have been described.

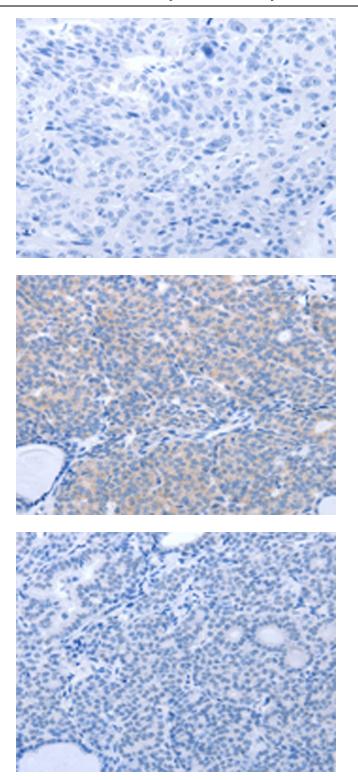
Synonyms:	MAPKKK4; MEKK 4; MEKK4; MTK1; PRO0412
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	GnRH signaling pathway, MAPK signaling pathway

#### **Product images:**



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA322542] (MAP3K4 Antibody) at dilution 1/40 (Original magnification: ×200)

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Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA322542] (MAP3K4 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: ×200)

Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA322542] (MAP3K4 Antibody) at dilution 1/40 (Original magnification: ×200)

Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA322542] (MAP3K4 Antibody) at dilution 1/40, treated with synthetic peptide. (Original magnification: ×200)

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