

Product datasheet for TA322543

MAP3K4 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC

Recommended Dilution: IHC: 25-100

Positive control: Human breast cancer Predicted cell location: Cytoplasm

Reactivity: Human
Host: Rabbit
Isotype: IgG

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

Concentration: lot specific

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: NP 005913

Entrez Gene 4216 Human

Q9Y6R4



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Background:

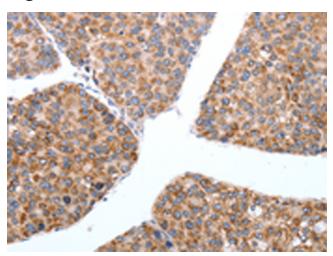
The central core of each mitogen-activated protein kinase (MAPK) pathway is a conserved cascade of 3 protein kinases: an activated MAPK kinase kinase (MAPKK) phosphorylates and activates a specific MAPK kinase (MAPKK); which then activates a specific MAPK. While the ERK MAPKs are activated by mitogenic 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

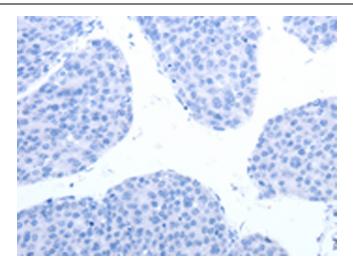
Protein Pathways: GnRH signaling pathway, MAPK signaling pathway

Product images:

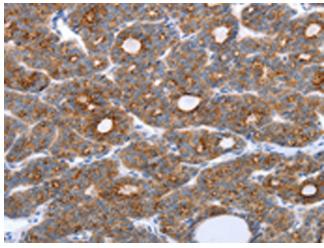


Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA322543 (MAP3K4 Antibody) at dilution 1/20 (Original magnification: ×200)

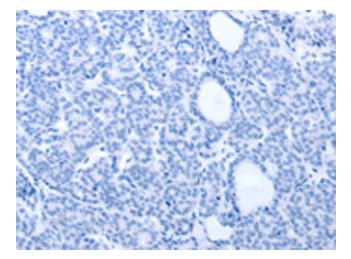




Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA322543 (MAP3K4 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA322543 (MAP3K4 Antibody) at dilution 1/20 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA322543 (MAP3K4 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)