

Product datasheet for **TA321907S**

MEK2 (MAP2K2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: Hela, NIH/3T3 and Jurkat cells IHC: 100-300 Positive control: Human gastric cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 20-34 amino acids of Human mitogen-activated protein kinase kinase 2
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	44 kDa
Gene Name:	mitogen-activated protein kinase kinase 2
Database Link:	NP_109587 Entrez Gene 26396 Mouse Entrez Gene 58960 Rat Entrez Gene 5605 Human P36507



[View online »](#)

Background:

The protein encoded by this gene 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. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome); a disease characterized by heart defects; mental retardation; and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene; which is located on chromosome 7; has been identified for this gene.

Synonyms:

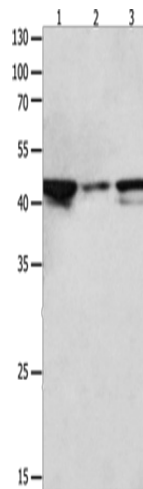
CFC4; MAPKK2; MEK2; MKK2; PRKMK2

Protein Families:

Druggable Genome, Protein Kinase

Protein Pathways:

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

Product images:

Gel: 10%SDS-PAGE

Lysate: 40 µg

Lane 1-3: HeLa cells

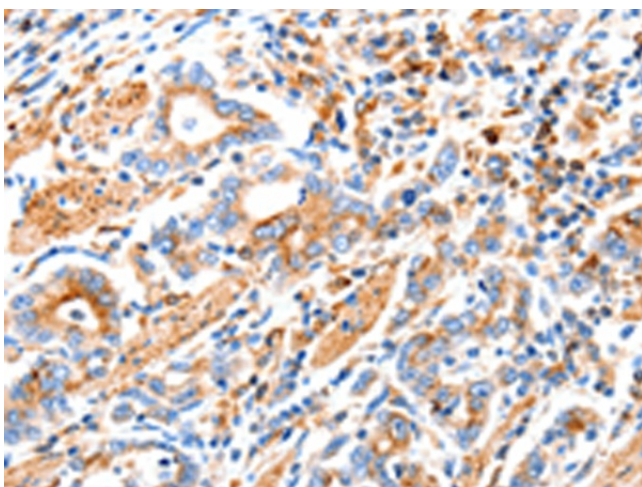
NIH/3T3 cells

Jurkat cells

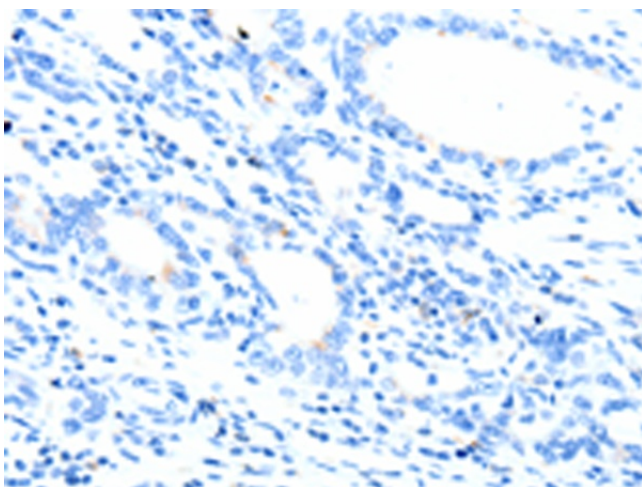
Primary antibody: [TA321907] (MAP2K2 Antibody) at dilution 1/1900

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

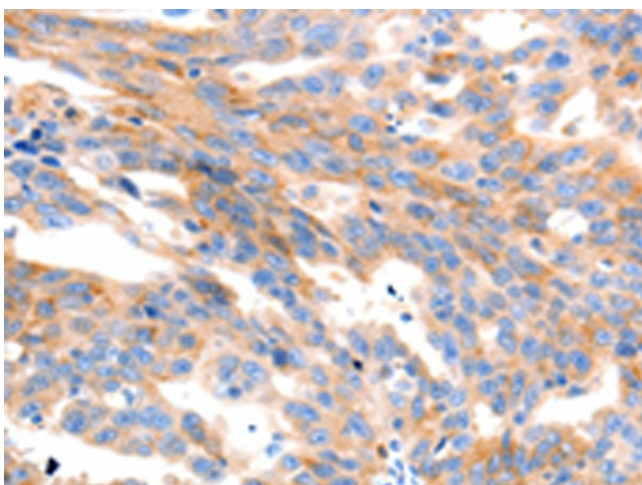
Exposure time: 30 seconds



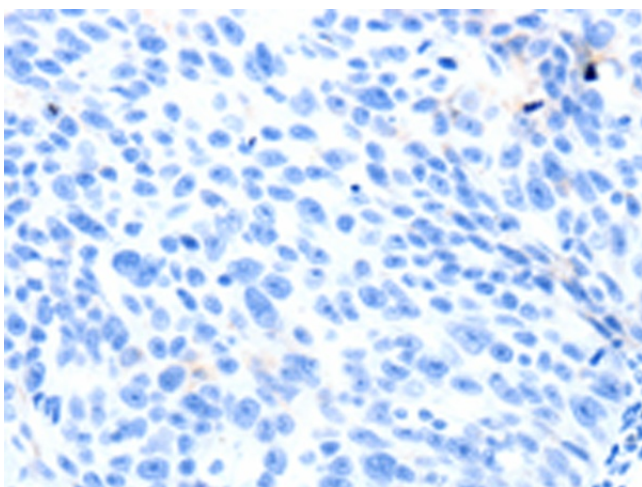
Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA321907] (MAP2K2 Antibody) at dilution 1/100 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA321907] (MAP2K2 Antibody) at dilution 1/100, treated with synthetic peptide. (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA321907] (MAP2K2 Antibody) at dilution 1/100 (Original magnification: $\times 200$)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA321907] (MAP2K2 Antibody) at dilution 1/100, treated with synthetic peptide. (Original magnification: $\times 200$)