

Datasheet for ABIN4886663
anti-MAP3K8 antibody (AA 9-193)



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2 Images

Overview

Quantity:	100 µg
Target:	MAP3K8
Binding Specificity:	AA 9-193
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAP3K8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MAP3K8 Antibody Picoband®
Immunogen:	E.coli-derived human MAP3K8 recombinant protein (Position: D9-L193). Human MAP3K8 shares 89.7% and 90.3% amino acid (aa) sequence identity with mouse and rat MAP3K8, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-MAP3K8 Antibody Picoband® (ABIN4886663). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are

Product Details

designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: MAP3K8

Alternative Name: MAP3K8 ([MAP3K8 Products](#))

Background: Synonyms: Mitogen-activated protein kinase kinase kinase 8,2.7.11.25,Cancer Osaka thyroid oncogene,Proto-oncogene c-Cot,Serine/threonine-protein kinase cot,Tumor progression locus 2,TPL-2,MAP3K8,COT, ESTF,
Tissue Specificity: Expressed in several normal tissues and human tumor-derived cell lines.
Background: Mitogen-activated protein kinase kinase kinase 8 is an enzyme that in humans is encoded by the MAP3K8 gene. This gene is an oncogene that encodes a member of the serine/threonine protein kinase family. The encoded protein localizes to the cytoplasm and can activate both the MAP kinase and JNK kinase pathways. This protein was shown to activate I κ B kinases, and thus induce the nuclear production of NF- κ B. Additionally, this protein was found to promote the production of TNF- α and IL-2 during T lymphocyte activation. This gene may also utilize a downstream in-frame translation start codon, and thus produce an isoform containing a shorter N-terminus. The shorter isoform has been shown to display weaker transforming activity. Alternate splicing results in multiple transcript variants that encode the same protein.
Sequence Similarities: Belongs to the transient receptor (TC 1.A.4) family. ST α PC subfamily. TRPC4 sub-subfamily.

Molecular Weight: 53 kDa

Gene ID: 1326

UniProt: [P41279](#)

Pathways: [PI3K-Akt Signaling](#), [TCR Signaling](#)

Application Details

Application Notes: Western blot, 0.1-0.5 μ g/mL, Human, Mouse, Rat
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 μ g/mL, Human, Mouse, Rat
Immunocytochemistry/Immunofluorescence, 5 μ g/mL, Human
Flow Cytometry (Fixed), 1-3 μ g/1 \times 10⁶ cells, Human

Application Details

1. "Entrez Gene: MAP3K8 mitogen-activated protein kinase kinase kinase 8". 2. Chan AM, Chedid M, McGovern ES, Popescu NC, Miki T, Aaronson SA (May 1993). "Expression cDNA cloning of a serine kinase transforming gene". *Oncogene* 8 (5): 1329-33. 3. Miyoshi J, Higashi T, Mukai H, Ohuchi T, Kakunaga T (Aug 1991). "Structure and transforming potential of the human cot oncogene encoding a putative protein kinase". *Molecular and Cellular Biology* 11 (8): 4088-96.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

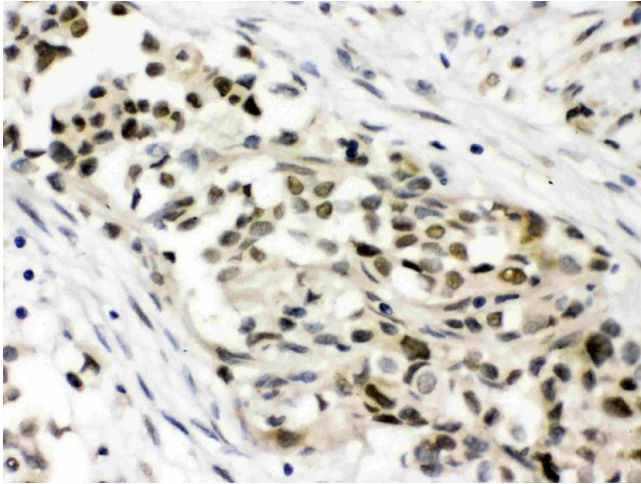
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.



Immunohistochemistry

Image 1. MAP3K8 was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- MAP3K8 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 2. Western blot analysis of MAP3K8 expression in rat brain extract (Lane 1) and HELA whole cell lysates (Lane 2). MAP3K8 at 53KD, 49KD was detected using rabbit anti- MAP3K8 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).