

Anti-MAP3K8 Picoband Antibody
Catalog # ABO11625**Specification**

Anti-MAP3K8 Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P41279
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Mitogen-activated protein kinase kinase kinase 8(MAP3K8) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MAP3K8 Picoband Antibody - Additional Information

Gene ID 1326

Other Names

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

Calculated MW

52925 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization

Cytoplasm .

Tissue Specificity

Expressed in several normal tissues and human tumor-derived cell lines.

Protein Name

Mitogen-activated protein kinase kinase kinase 8

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

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.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-MAP3K8 Picoband Antibody - Protein Information

Name MAP3K8

Synonyms COT, ESTF

Function

Required for lipopolysaccharide (LPS)-induced, TLR4-mediated activation of the MAPK/ERK pathway in macrophages, thus being critical for production of the pro-inflammatory cytokine TNF-alpha (TNF) during immune responses. Involved in the regulation of T-helper cell differentiation and IFNG expression in T-cells. Involved in mediating host resistance to bacterial infection through negative regulation of type I interferon (IFN) production. In vitro, activates MAPK/ERK pathway in response to IL1 in an IRAK1-independent manner, leading to up-regulation of IL8 and CCL4. Transduces CD40 and TNFRSF1A signals that activate ERK in B-cells and macrophages, and thus may play a role in the regulation of immunoglobulin production. May also play a role in the transduction of TNF signals that activate JNK and NF-kappa-B in some cell types. In adipocytes, activates MAPK/ERK pathway in an IKBKB- dependent manner in response to IL1B and TNF, but not insulin, leading to induction of lipolysis. Plays a role in the cell cycle. Isoform 1 shows some transforming activity, although it is much weaker than that of the activated oncogenic variant.

Cellular Location

Cytoplasm

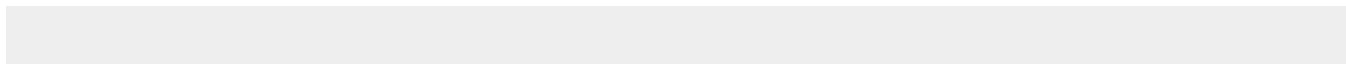
Tissue Location

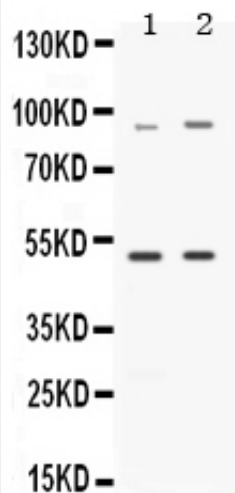
Expressed in several normal tissues and human tumor-derived cell lines

Anti-MAP3K8 Picoband Antibody - Protocols

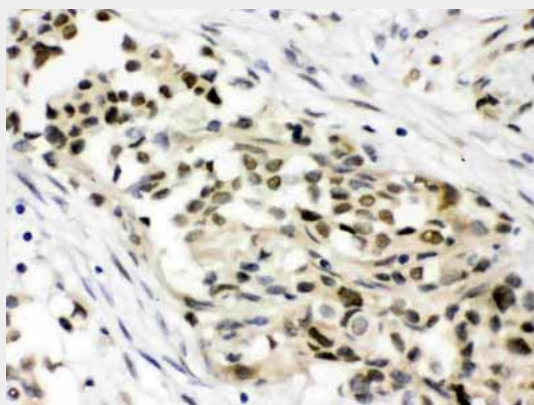
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MAP3K8 Picoband Antibody - Images



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 # ABO11625) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



MAP3K8 was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- MAP3K8 Antigen Affinity purified polyclonal antibody (Catalog # ABO11625) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

Anti-MAP3K8 Picoband Antibody - 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 IκB kinases, and thus induce the nuclear production of NF-κB. 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.