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Anti-MAP3K8 Picoband Antibody

Catalog # ABO11625

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.

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
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human, Rat
Subcellular Localization	Cytoplasm .
Tissue Specificity	Expressed in several normal tissues and human tumor-derived cell lines.
Source	Eukaryota
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 r˚Constitution, 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.

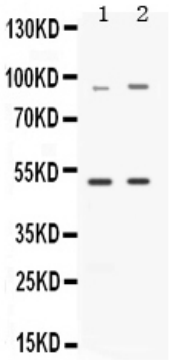
Protein Information

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 (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

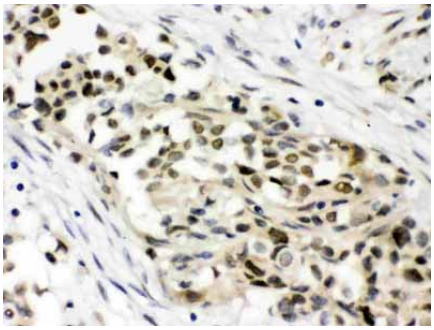
Background

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 IkappaB kinases, and thus induce the nuclear production of NF-kappaB. Additionally, this protein was found to promote the production of TNF-alpha 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.

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 ??g/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 .