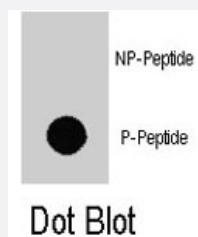


MAP3K7IP1 (phospho S423) polyclonal antibody

Catalog # PAB8099

Size 400 uL

Applications



Dot Blot (Peptide)

Dot blot analysis of MAP3K7IP1 (phospho S423) polyclonal antibody (Cat # PAB8099) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of MAP3K7IP1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to C-terminus residues surrounding S423 of human MAP3K7IP1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	ELISA (1:1000) Dot Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Dot Blot (Peptide)

Dot blot analysis of MAP3K7IP1 (phospho S423) polyclonal antibody (Cat # PAB8099) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 ug/mL.

Gene Info — MAP3K7IP1

Entrez GeneID [10454](#)

Protein Accession# [NP_006107](#)

Gene Name MAP3K7IP1

Gene Alias 3'-Tab1, MGC57664, TAB1

Gene Description mitogen-activated protein kinase kinase kinase 7 interacting protein 1

Omim ID [602615](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations TAK1-binding protein 1|transforming growth factor beta-activated kinase-binding protein 1

Publication Reference

- [TAK1-binding protein 1 is a pseudophosphatase.](#)

Conner SH, Kular G, Peggie M, Shepherd S, Schuttelkopf AW, Cohen P, Van Aalten DM.

The Biochemical Journal 2006 Nov; 399(3):427.

- [Determinants that control the specific interactions between TAB1 and p38alpha.](#)

Zhou H, Zheng M, Chen J, Xie C, Kolatkar AR, Zarubin T, Ye Z, Akella R, Lin S, Goldsmith EJ, Han J.

Molecular and Cellular Biology 2006 May; 26(10):3824.

- [Critical roles of threonine 187 phosphorylation in cellular stress-induced rapid and transient activation of transforming growth factor-beta-activated kinase 1 \(TAK1\) in a signaling complex containing TAK1-binding protein TAB1 and TAB2.](#)

Singhirunnusorn P, Suzuki S, Kawasaki N, Saiki I, Sakurai H.

The Journal of Biological Chemistry 2005 Feb; 280(8):7359.

Pathway

- [MAPK signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Crohn Disease](#)