Catalogue #

Aliquot Size

M15-63R-100

100 µg

Anti-TAK1

Rabbit Polyclonal Antibody

Catalog # M15-63R

Lot # O2109-32

Cited Applications

WB, ELISA, IF, IHC

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity

Recognizes the TAK1 protein

Cross Reactivity

Human, Mouse and Rat

Host/Isotype/Clone#

Rabbit, IgG

Immunogen

TAK1 antibody was raised against a synthetic peptide corresponding to 14 amino acids near the amino-terminus of human TAK1 isoform a

Formulation

PBS + 0.02% sodium azide

Stability

1yr at -20°C from date of shipment

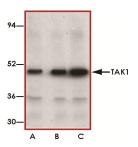
Scientific Background

TAK1 is a serine/threonine protein kinase that mediates signaling by TGFβ and morphogenetic protein (BMP) (1). In response to IL-1, TAK1 forms a kinase complex with TAB1 and this complex is required for the activation of nuclear factor kappa B (Nfκβ). TAK1 can also activate MAPK8/JNK and MAP2K4/MKK4 and thus play a role in the cell response to environmental stress. Tak1 is essential for thymocyte development and activation and deletion of TAK1 prevents maturation of single-positive thymocytes displaying CD4 or CD8 (2). Thymocytes lacking TAK1 fail to activate Nfκβ and JNK and are prone to apoptosis upon stimulation.

References

- Yamaguchi, K. et al: Identification of a member of the MAPKKK family as a potential mediator of TGF-beta signal transduction. Science 270: 2008-2011, 1995.
- Liu, H.-H. et al: Essential role of TAK1 in thymocyte development and activation. Proc. Nat. Acad. Sci. 103: 11677-11682, 2006.

Sample Data



Western blot analysis of TAK1 in Rat thymus cell lysate with TAK1 antibody at (A) 1, (B) 2, and (C) 4 ug/ml.

Anti-TAK1

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Specific Lot Number
Purificatio

Purification Stability Storage & Shipping M15-63R O2109-32 Affinity chromatography

Store product at -20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.