

Human TAK1 Antibody

Monoclonal Mouse IgG₁ Clone # 491840 Catalog Number: MAB5307

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects endogenous human TAK1 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 491840
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant human TAK1 isoform 1A Met1-Ser579 Accession # Q5U0D0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

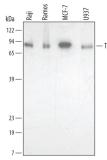
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA





Detection of Human TAK1 by Western Blot. Western blot shows lysates of Raji human Burkitt's lymphoma cell line, Ramos human Burkitt's lymphoma cell line, MCF-7 human breast cancer cell line, and U937 human histiocytic lymphoma cell line. PVDF membrane was probed with 1 μg/mL of Human TAK1 Monoclonal Antibody (Catalog # MAB5307) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for TAK1 at approximately 80 to 82 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	■ 12 months from date of receipt -20 to -70 °C as supplied	

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TGF-beta-activated kinase 1 (TAK1; also MAP3K7) is a member of the STE Ser/Thr protein kinase family and the MAP kinase kinase kinase subfamily. Human TAK1 is 606 amino acids (aa) in length and contains a protein kinase domain at aa 36-291. There are three isoforms for TAK1. Isoform 1B is the largest isoform. Isoform 1A has a 27 aa deletion corresponding to aa 404-430 in isoform 1B, and isoform 1C has an 88 aa deletion corresponding to aa 519-606 in isoform 1B. TAK1 activity has been implicated during TGFβ-induced and Ras-dependent tumorigenesis.

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