

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	<i>E. coli</i> -derived recombinant human TAK1 isoform 1A Met1-Ser579 Accession # Q5U0D0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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