

TAB1 Monoclonal Antibody (2D3)

Catalog Number LF-MA0196

Product data sheet

Details		Tested Applications	Dilution *
Size	100 µL	ELISA (ELISA)	Assay-dependent
Host/Isotope	Mouse / IgG2a, kappa	Western Blot (WB)	2 µg/mL
Class	Monoclonal	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Type	Antibody		
Clone	2D3		
Immunogen	Recombinant human protein purified from E.coli (His-TAB1 (1~300))		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	2 mg/mL		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

A suggested positive control for this product is A431 cells.

Background/Target Information

TGF-beta-activated kinase 1 and MAP3K7-binding protein 1 (TAB1) is 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. TAB1 interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of TAB1 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. It 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.

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