

For Research Use Only

TAK1 Monoclonal antibody

Catalog Number: 67707-1-Ig **7 Publications**



Basic Information

Catalog Number: 67707-1-Ig	GenBank Accession Number: BC017715	Purification Method: Protein G purification
Size: 150ul, Concentration: 1100 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6885	CloneNo.: 1A5B2
Source: Mouse	UNIPROT ID: O43318	Recommended Dilutions: WB 1:500-1:3000 IHC 1:250-1:1000 IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: mitogen-activated protein kinase kinase kinase 7	
Immunogen Catalog Number: AG21286	Calculated MW: 579 aa, 64 kDa	
	Observed MW: 67-70 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : A431 cells, NIH/3T3 cells, HepG2 cells, A549 cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, RAW 264.7 cells IHC : human prostate cancer tissue, mouse brain tissue IF/ICC : HepG2 cells,
Cited Applications: WB, IHC, IF, IP	
Species Specificity: human, mouse, rat	
Cited Species: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

MAP3K7(Mitogen-activated protein kinase kinase kinase 7) is also named as TAK1 and belongs to the MAP kinase kinase kinase subfamily. It plays an important role in the cascades of cellular responses evoked by changes in the environment. It has been linked to interleukin-1 receptor and tumor necrosis factor receptor signaling (PMID: 16186825). It has 4 isoforms (53-55 kDa, 64-70 kDa and 75-80 kDa) produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Xuehua Sun	35842555	Neurochem Res	IF
Yan Zhang	39236989	Exp Cell Res	IF
Yangyang Chen	38359662	Int Immunopharmacol	WB,IHC

Storage

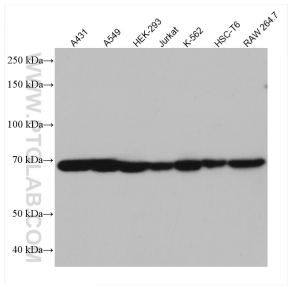
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

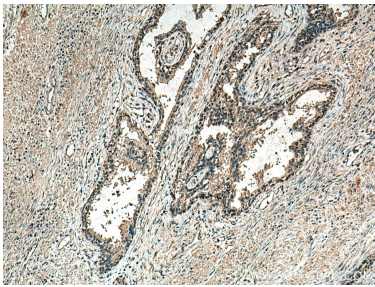
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

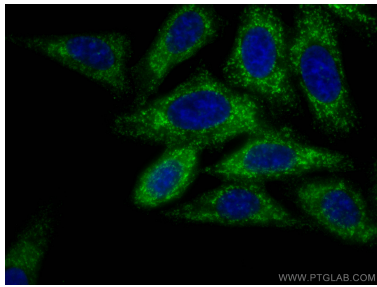
Selected Validation Data



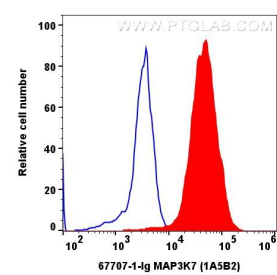
Various lysates were subjected to SDS PAGE followed by western blot with 67707-1-Ig (TAK1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



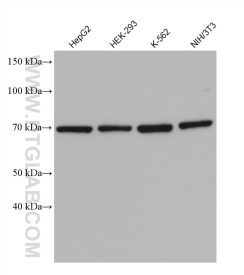
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 67707-1-Ig (TAK1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



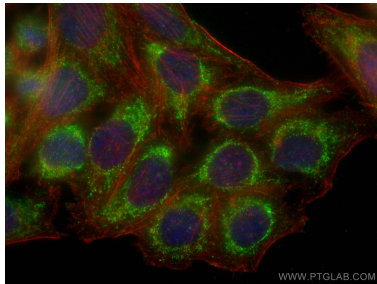
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using TAK1 antibody (67707-1-Ig, Clone: 1A5B2) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10⁶ K-562 cells were intracellularly stained with 0.2 µg TAK1 Monoclonal antibody (67707-1-Ig, Clone:1A5B2 (red) or Mouse IgG1 isotype control (66360-1-Ig, Clone: 1F8D3 (blue), and Multi-rAb CoraLite® Plus 647-Goat Anti-Mouse Recombinant Secondary Antibody (H+L)(RGAM005). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with 67707-1-Ig (TAK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using TAK1 antibody (67707-1-Ig, Clone: 1A5B2) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).