

TAK1 Monoclonal antibody

Catalog Number: 67707-1-Ig 8 Publications

Basic Information

Catalog Number: 67707-1-Ig	GenBank Accession Number: BC017715	Purification Method: Protein G purification
Concentration: 1000 ug/ml	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
Cited Applications: WB, IHC, IF, IP	IHC : human prostate cancer tissue, mouse brain tissue
Species Specificity: human, mouse, rat	IF/ICC : HepG2 cells,
Cited Species: human, mouse, rat	FC (Intra) : K-562 cells,
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
Tianyu Zhang	40048432	Cell Rep	WB
Yan Zhang	39236989	Exp Cell Res	IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

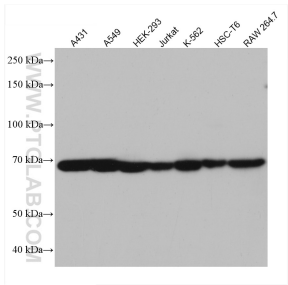
For technical support and original validation data for this product please contact:

T: 4006900926

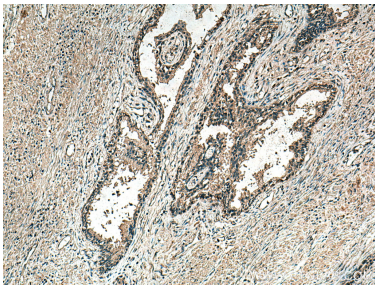
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

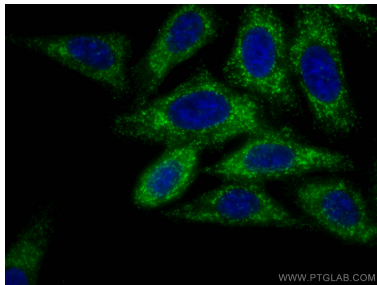
Selected Validation Data



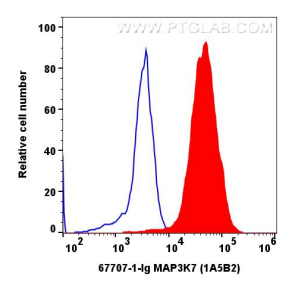
Various lysates were subjected to SDS PAGE followed by western blot with 67707-1-Ig (TAK1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



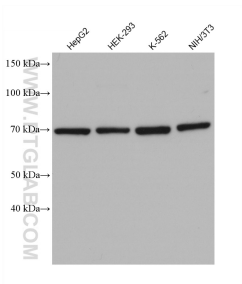
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 67707-1-Ig (TAK1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



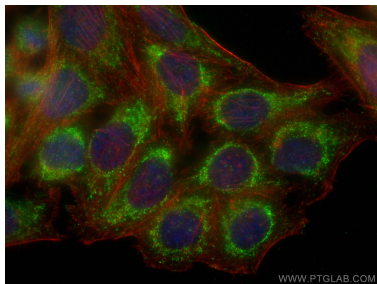
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using TAK1 antibody (67707-1-Ig, Clone: 1A5B2) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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).