

For Research Use Only

# TAK1 Monoclonal antibody

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



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>67707-1-Ig        | <b>GenBank Accession Number:</b><br>BC017715                             | <b>Purification Method:</b><br>Protein G purification                                     |
| <b>Concentration:</b><br>1000 ug/ml         | <b>GeneID (NCBI):</b><br>6885  | <b>CloneNo.:</b><br>1A5B2   |
| <b>Source:</b><br>Mouse                     | <b>UNIPROT ID:</b><br>O43318   | <b>Recommended Dilutions:</b><br>WB 1:500-1:3000<br>IHC 1:250-1:1000<br>IF/ICC 1:50-1:500 |
| <b>Isotype:</b><br>IgG1                     | <b>Full Name:</b><br>mitogen-activated protein kinase<br>kinase kinase 7 |   |
| <b>Immunogen Catalog Number:</b><br>AG21286 | <b>Calculated MW:</b><br>579 aa, 64 kDa                                  |   |
|   | <b>Observed MW:</b><br>67-70 kDa   |   |

## Applications

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

## 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      |

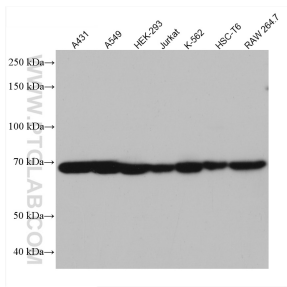
## Storage

**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

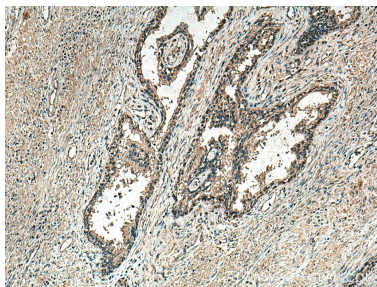
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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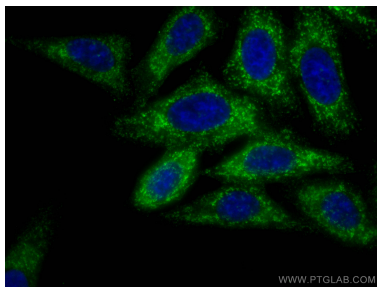
## Selected Validation Data



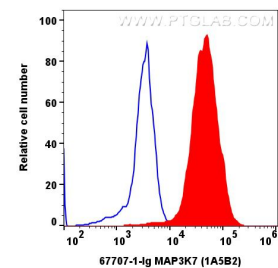
Various lysates were subjected to SDS PAGE followed by western blot with 67707-1-Ig (TAK1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



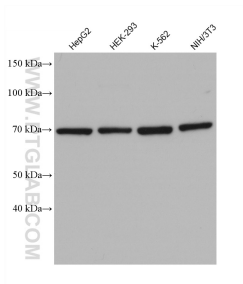
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 67707-1-Ig (TAK1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



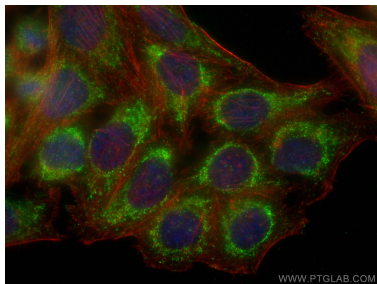
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using TAK1 antibody (67707-1-Ig, Clone: 1A5B2 ) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1x10<sup>6</sup> K-562 cells were intracellularly stained with 0.2  $\mu$ g 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).