Product Datasheet

TAK1 Antibody
NB100-56363

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 2

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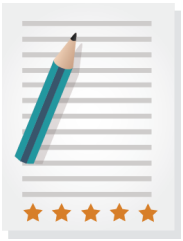
Updated 10/23/2024 v.20.1



NB100-56363

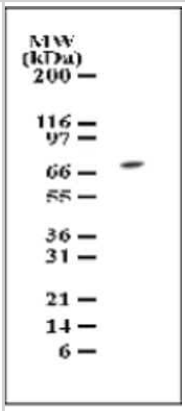
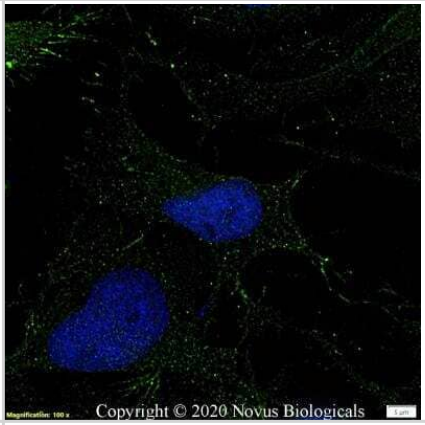
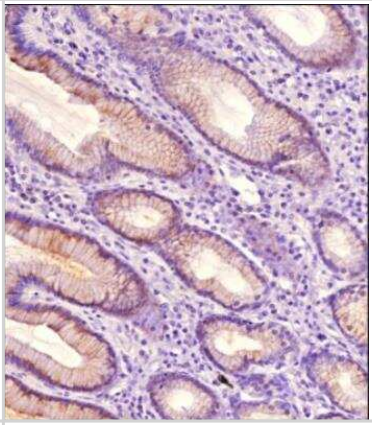
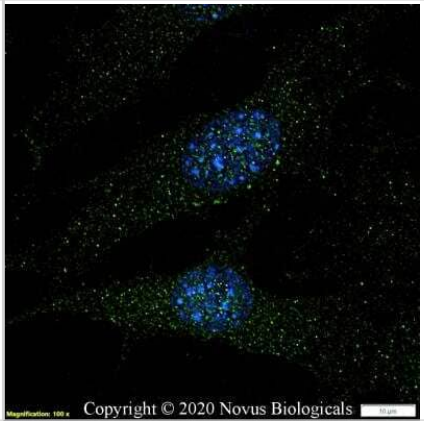
TAK1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS containing 0.05% BSA

Product Description	
Host	Rabbit
Gene ID	6885
Gene Symbol	MAP3K7
Species	Human, Mouse
Immunogen	This polyclonal antibody was raised against amino acids 19-35 and 564-579 of human TAK1 (accession number BAA25025).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry 1:200. Use reported in scientific literature (PMID 30786091), Immunocytochemistry/ Immunofluorescence 2-5 ug/ml, Immunohistochemistry-Paraffin 1:200
Application Notes	In NIH 3T3, an approx. 70 kDa band is observed.

Images

Western Blot: TAK1 Antibody [NB100-56363] - Western blot analysis of TAK1 in cell lysates from NIH 3T3 cells using NB100-56363 at 1 ug/ml dilution.	
Immunocytochemistry/Immunofluorescence: TAK1 Antibody [NB100-56363] - RH30 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-TAK1 Antibody NB100-56363 at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.	
Immunohistochemistry-Paraffin: TAK1 Antibody [NB100-56363] - Analysis of a FFPE tissue section of human stomach using 1:200 dilution of TAK1 antibody. The staining was developed using HRP labeled anti-rabbit secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin.	
Immunocytochemistry/Immunofluorescence: TAK1 Antibody [NB100-56363] - NIH3T3 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-TAK1 Antibody NB100-56363 at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.	

Publications

Sung Hsieh HH, Agarwal S, Cholok DJ et al. Coordinating Tissue Regeneration through TGF-b Activated Kinase 1 (TAK1) In-activation and Re-activation Stem Cells 2019-02-20 [PMID: 30786091] (IF/IHC, Mouse)

Liepelt A, Mossanen JC, Denecke B et al. Translation control of TAK1 mRNA by hnRNP K modulates LPS-induced macrophage activation. RNA 2014-04-21 [PMID: 24751651] (WB, Mouse)

Details:
RAW264.7 and bone marrow-derived macrophages: IF (Figs 4A, 6A), WB (Fig 4B).

Procedures

Immunohistochemistry-Paraffin Protocol for TAK1 Antibody (NB100-56363)
Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer all the time).

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

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Products Related to NB100-56363

NB800-PC8	NIH 3T3 Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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