TAK1 Recombinant Rabbit Monoclonal Antibody (28H25L68)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	28H25L68
Conjugate	Unconjugated
Immunogen	A recombinant protein corresponding to amino acids 476-606 of O43318.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532282

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-2 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	2-3 µg/mL	-
Flow Cytometry (Flow)	3-5 µg/1x10^6 cells	-
Immunoprecipitation (IP)	-	1 Publication

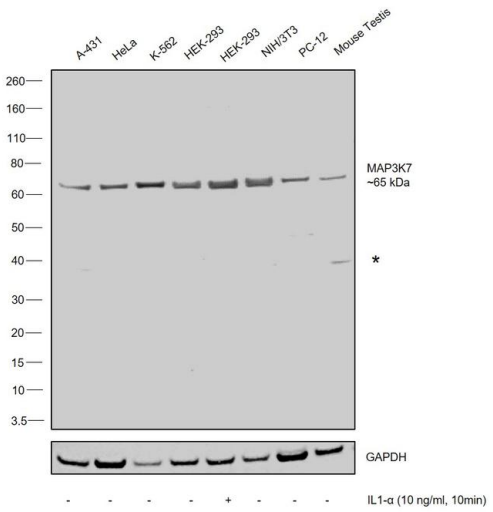
Product Specific Information

This antibody is predicted to react with Rhesus monkey, orangutan, chimpanzee, mouse, rat, equine, porcine, bovine, chicken, Xenopus and zebrafish based on sequence homology.

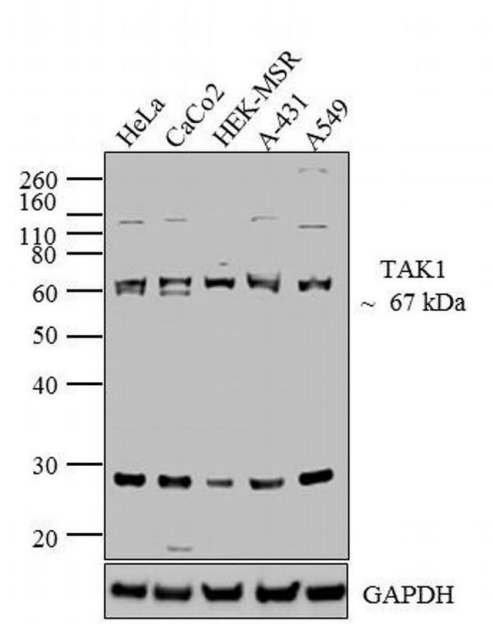
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

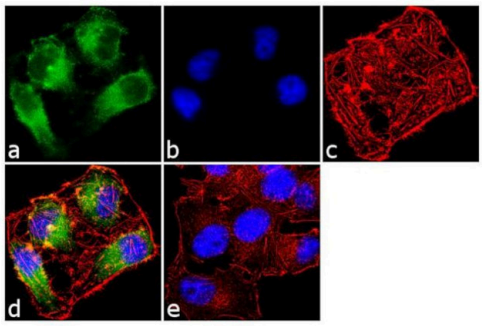
Product Images For TAK1 Recombinant Rabbit Monoclonal Antibody (28H25L68)



TAK1 Antibody (700113) in WB
Western blot was performed using Anti-TAK1 Recombinant Rabbit Monoclonal Antibody (28H25L68) (Product # 700113) and a ~65 kDa band corresponding to Mitogen-activated protein kinase kinase kinase 7 was observed along with an uncharacterised band (*) at ~40 kDa across cell lines and tissues tested. Whole cell extracts (30 µg lysate) of A-431 (Lane 1), HeLa (Lane 2), K-562 (Lane 3), HEK-293 (Lane 4), HEK-293 treated with IL1-alpha (Lane 5), NIH/3T3 (Lane 6), PC-12 (Lane 7) and Mouse Testis (Lane 8) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:2000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036,1:20000 dilution using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).



TAK1 Antibody (700113) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), CaCo-2 (Lane 2), HEK-MSR (Lane 3), A-431 (lane 4) and A549 (lane 5). The blots were probed with Recombinant Rabbit Monoclonal Anti-TAK1 Antibody (Product # 700113, 0.5-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Recombinant Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 67 kDa band corresponding to TAK1 was observed across cell lines tested along with an extra band at ~ 30 kDa. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



TAK1 Antibody (700113) in ICC/IF
Immunofluorescence analysis of TAK1/MAP3K7 was done on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with TAK1 /MAP3K7 (28H25L68), Recombinant Rabbit Monoclonal Antibody (Product # 700113) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.

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2 References

Western Blot (1)

The Journal of cell biology

Analysis of copy number alterations reveals the lncRNA ALAL-1 as a regulator of lung cancer immune evasion.

"700113 was used in Immunoprecipitation to investigate the pro-oncogenic role of lncRNA ALAL-1 in mediating lung cancer immune evasion."

Authors: Athie A,Marchese FP,González J,Lozano T,Raimondi I,Juvvuna PK,Abad A,Marin-Bejar O,Serizay J,Martínez D,Ajona D,Pajares MJ,Sandoval J,Montuenga LM,Kanduri C,Lasarte JJ,Huarte M

Year
2020

Species
Human

Immunoprecipitation (1)

The Journal of cell biology

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