

# RAB3A Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Dog, Hamster, Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues M(1) A S A T D S R Y G Q K E S S D Q N(18) C of human RAB3A.
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	1mg/mL BSA
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2177381

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	1 Publication
Immunoprecipitation (IP)	Assay dependent	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-

## Product Specific Information

PA1-770 detects rab 3A from canine, hamster, human, mouse and rat tissues and cells.

PA1-770 has been successfully used in Western blot and immunoprecipitation procedures. By Western blot, this antibody detects an ~21 kDa protein representing rab 3A from Hepa1 cell lysate.

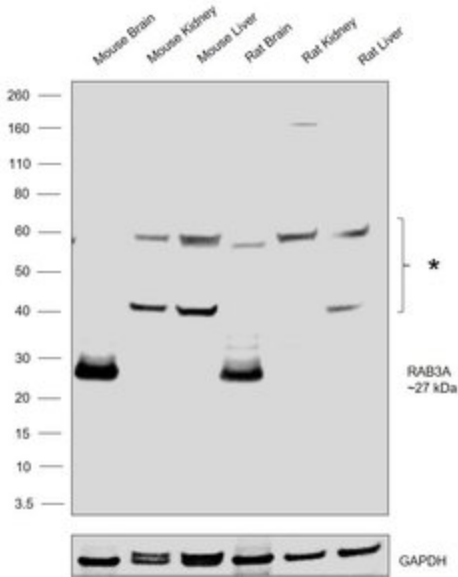
PA1-770 immunogen is a synthetic peptide corresponding to residues M(1) A S A T D S R Y G Q K E S S D Q N(18) C of human RAB3A. This sequence is completely conserved between human, mouse, and rat rab 3A. PA1-770 immunizing peptide (Cat. # PEP-098) is available for use in neutralization and control experiments.

Recombinant human rab 3A (Cat # RP-770) protein can be purchased for control experiments in Western blot applications.

## Advanced Verification Data

### RAB3A Antibody (PA1-770)

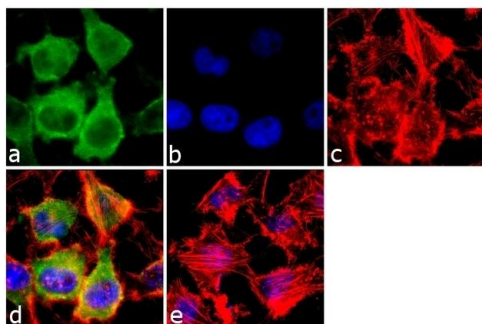
Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues owing to their inherent genetic constitution. Relative expression of RAB3A was observed in Mouse Brain and Rat Brain in comparison to Mouse Kidney, Mouse Liver, Rat Kidney and Rat Liver using Anti-RAB3A Polyclonal Antibody (Product # PA1-770) in Western Blot. Relative expression validation info.



## Product Images For RAB3A Polyclonal Antibody

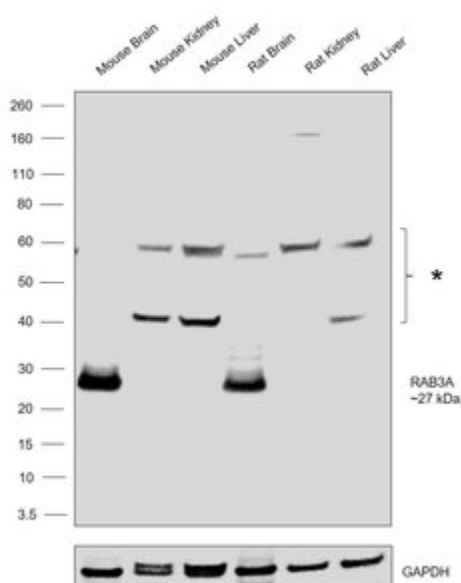
### RAB3A Antibody (PA1-770) in ICC/IF

Immunofluorescence analysis of RAB3A 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 RAB3A Rabbit Polyclonal Antibody (Product # PA1-770) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) 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.



### RAB3A Antibody (PA1-770) in WB

Western blot was performed using Anti-RAB3A Polyclonal Antibody (Product # PA1-770) and a 27 kDa band corresponding to RAB3A was observed along with two uncharacterized band (\*) at ~40 kDa and 60 kDa across tissues tested. Tissue extract (30 µg lysate) of Mouse Brain (Lane 1), Mouse Kidney (Lane 2), Mouse Liver (Lane 3), Rat Brain (Lane 4), Rat Kidney (Lane 5), Rat Liver (Lane 6), were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (2 µg/mL) and detected by chemiluminescence with Rabbit anti-Goat IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27014, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



## 1 Reference

### Western Blot (1)

eLife

#### Systematic proteomic analysis of LRRK2-mediated Rab GTPase phosphorylation establishes a connection to ciliogenesis.

"PA1-770 was used in Western Blotting to assess the LRRK2-mediated phosphorylation of the Rab GTPase family to establish a connection to primary ciliogenesis."

Authors: Steger M, Diez F, Dhekne HS, Lis P, Nirujogi RS, Karayel O, Tonelli F, Martinez TN, Lorentzen E, Pfeffer SR, Alessi DR, Mann M

Species  
Human

Dilution  
Not Cited

Year  
2017

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