

GNAI2 Polyclonal Antibody

Catalog NumberPA5-27520

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Western Blot (WB)	1:500-1:3,000
Type	Antibody	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 94 and 355 of Human G protein alpha Inhibitor 2	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: Jurkat. Predicted reactivity: Mouse (98%), Rat (99%), Japanese Medaka (90%), Xenopus laevis (95%), Dog (99%), Pig (100%), Chicken (97%), Sheep (99%), Rhesus Monkey (100%), Chimpanzee (100%), Bovine (99%), Guinea pig (99%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

The protein encoded by this gene is an alpha subunit of guanine nucleotide binding proteins (G proteins). The encoded protein contains the guanine nucleotide binding site and is involved in the hormonal regulation of adenylate cyclase. Several transcript variants encoding different isoforms have been detected for this gene, but the full-length nature of only two are known so far.

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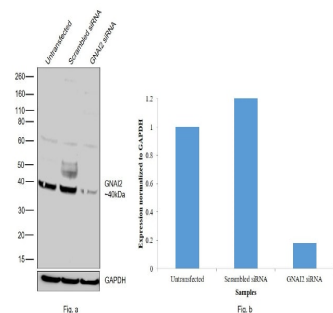
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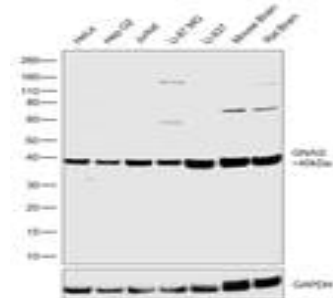
### GNAI2 Antibody (PA5-27520)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with GNAI2 siRNA and reduction of signal was observed in Western Blot using GNAI2 Polyclonal Antibody (Product # PA5-27520). {KD}



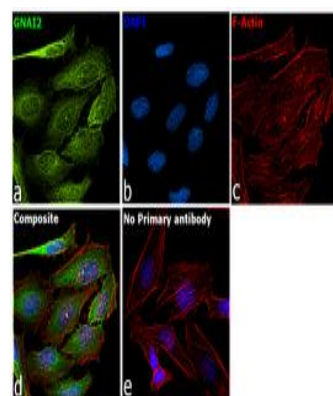
### GNAI2 Antibody (PA5-27520) in WB

Western blot was performed using Anti-GNAI2 Rabbit Polyclonal Antibody (Product # PA5-27520) and a 40kDa band corresponding to GNAI2 was observed across cell lines and tissues tested. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), Hep G2 (Lane 2), Jurkat (Lane 3), U-87 MG (Lane 4), U-937 (Lane 5), Mouse Brain (Lane 6) and Rat Brain (Lane 7) were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX). 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 (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



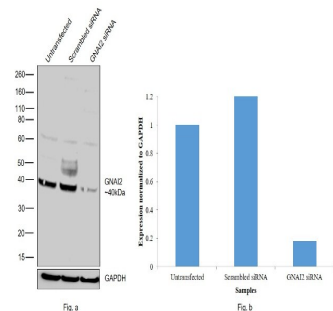
### GNAI2 Antibody (PA5-27520) in ICC/IF

Immunofluorescence analysis of GNAI2 was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with GNAI2 Polyclonal Antibody (Product # PA5-27520) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (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 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear and cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



### GNAI2 Antibody (PA5-27520) in WB

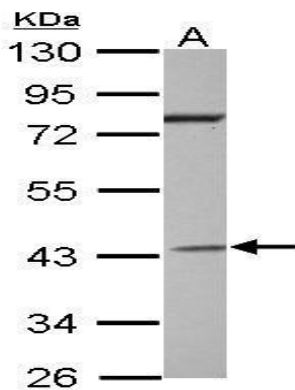
Knockdown of GNAI2 was achieved by transfecting HeLa cells with GNAI2 specific siRNAs (Silencer® select Product # s5875). Western blot analysis (Fig. a) was performed whole cell extracts from the GNAI2 knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with GNAI2 Polyclonal Antibody (Product # PA5-27520, 1:1,000 dilution) and Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 0.25 µg/mL, 1:4,000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to GNAI2.



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#### GNAI2 Antibody (PA5-27520) in WB

Western Blot using GNAI2 Polyclonal Antibody (Product # PA5-27520). Sample (30 µg of whole cell lysate). Lane A: Jurkat. 10% SDS PAGE. GNAI2 Polyclonal Antibody (Product # PA5-27520) diluted at 1:2,000.

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