

For Research Use Only

# GNAI3 Polyclonal antibody

Catalog Number: 11641-1-AP 1 Publications



## Basic Information

<b>Catalog Number:</b> 11641-1-AP	<b>GenBank Accession Number:</b> BC025285	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 500 µg/ml	<b>GeneID (NCBI):</b> 2773	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:20-1:200 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08754	
<b>Isotype:</b> IgG	<b>Full Name:</b> guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3	
<b>Immunogen Catalog Number:</b> AG2229	<b>Calculated MW:</b> 40 kDa	
	<b>Observed MW:</b> ~40 kDa	

## Applications

<b>Tested Applications:</b> FC, IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : rat kidney tissue, A431 cells, mouse brain tissue, human kidney tissue IHC : human kidney tissue, human brain tissue IF : HepG2 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> mouse	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

GNAI3 is a member of the Gi group proteins, which belong to the G $\alpha$  protein family. GNAI3 is involved in several critical biological processes and regulates many cellular activities, including proliferation, differentiation, apoptosis, and migration. For example, GNAI3 can regulate a class of K<sup>+</sup> channels in response to hormone and neurotransmitter signals. In addition to its function as a downstream signal pathway switch for receptors on the plasma membrane, GNAI3 has also been shown to localize to the centrosome and affect cytokinesis. These indicate that GNAI3 has important receptor-independent functions. The molecular weight of GNAI3 is 40 kDa. (PMID: 25444921, 34803495)

## Notable Publications

Author	Pubmed ID	Journal	Application
Menbere Wendimu	33705894	Cell Signal	WB

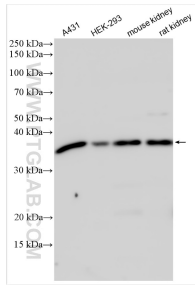
## Storage

**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

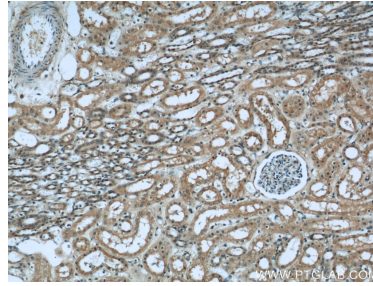
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

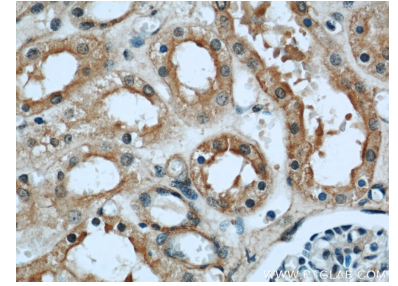
## Selected Validation Data



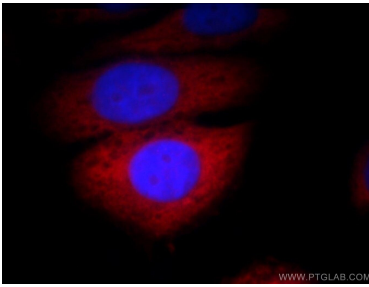
Various lysates were subjected to SDS PAGE followed by western blot with 11641-1-AP (GNAI3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



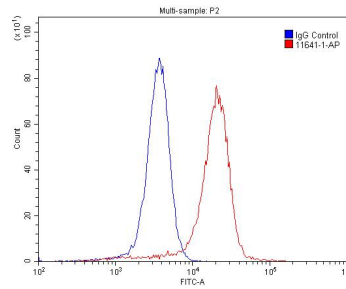
Immunohistochemical analysis of paraffin-embedded human kidney using 11641-1-AP (GNAI3 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 11641-1-AP (GNAI3 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells, using GNAI3 antibody 11641-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



$1 \times 10^6$  A431 cells were stained with .2ug GNAI3 antibody (11641-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.