

For Research Use Only

# GNAI3 Polyclonal antibody

Catalog Number: 11641-1-AP

2 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> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2773	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P08754	<b>IHC 1:20-1:200</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3	<b>IF/ICC 1:50-1:500</b>
<b>Immunogen Catalog Number:</b> AG2229	<b>Calculated MW:</b> 40 kDa	
	<b>Observed MW:</b> ~40 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> <b>WB :</b> rat kidney tissue, A431 cells, mouse brain tissue, human kidney tissue
<b>Cited Applications:</b> WB	<b>IHC :</b> human kidney tissue, human brain tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> HeLa cells,
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

GNAI3 is a member of the Gi group proteins, which belong to the Gq 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
Suchismita Roy	38833528	Sci Signal	WB

## Storage

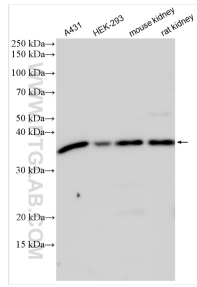
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

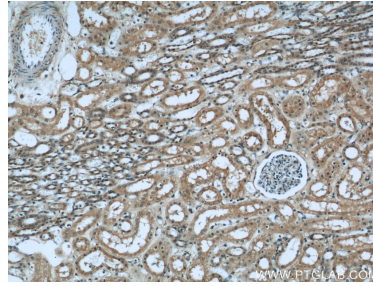
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

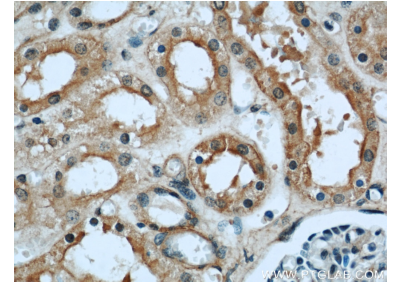
## Selected Validation Data



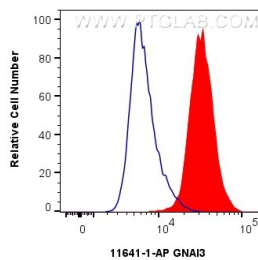
Various lysates were subjected to SDS PAGE followed by western blot with 11641-1-AP (GNAI3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



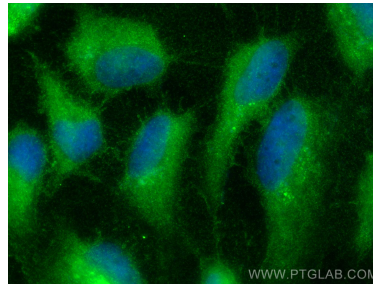
Immunohistochemical analysis of paraffin-embedded human kidney using 11641-1-AP (GNAI3 antibody) at dilution of 1:50 (under 10x lens).



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



$1 \times 10^6$  A431 cells were intracellularly stained with 0.4  $\mu$ g GNAI3 Polyclonal antibody (11641-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GNAI3 antibody (11641-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).