

For Research Use Only

# GNAS Monoclonal antibody

Catalog Number: 66253-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 66253-1-Ig	<b>GenBank Accession Number:</b> BC002722	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2200 ug/ml by 2778 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2778	<b>CloneNo.:</b> 1A9C10
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O95467	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:2000-1:8000 IF-P 1:200-1:800 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG2b	<b>Full Name:</b> GNAS complex Locus	
<b>Immunogen Catalog Number:</b> AG20530	<b>Calculated MW:</b> 45 kDa	
	<b>Observed MW:</b> 46 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b> WB : fetal human brain tissue, pig brain tissue
<b>Cited Applications:</b> WB, IF	<b>IHC :</b> human colon tissue,
<b>Species Specificity:</b> human, pig	<b>IF-P :</b> human colon cancer tissue,
<b>Cited Species:</b> human, pig	<b>IF/ICC :</b> MCF-7 cells,

**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

Guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1 (GNAS1) is the ubiquitously expressed heterotrimeric G protein that couples receptors to the effector enzyme adenylyl cyclase and is required for receptor-stimulated intracellular cAMP generation. Mutations of Gs(alpha) residues involved in the GTPase reaction that lead to constitutive activation are present in endocrine tumors, fibrous dysplasia of bone, and McCune-Albright syndrome. The molecular weight of Gs(alpha) protein is about 46 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiaping Zhu	35810687	Vet Microbiol	WB
Geun Heo	37917004	FASEB J	IF, WB

## Storage

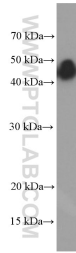
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

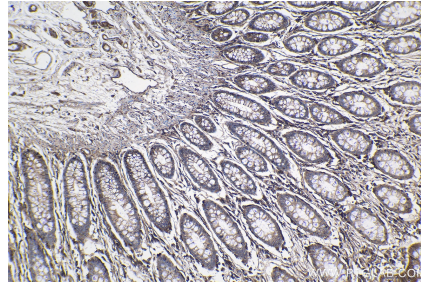
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

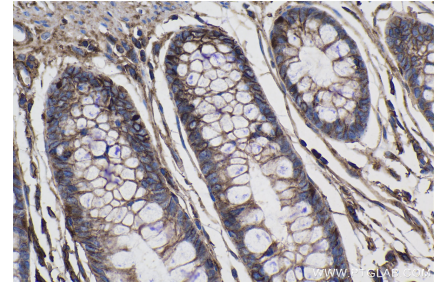
## Selected Validation Data



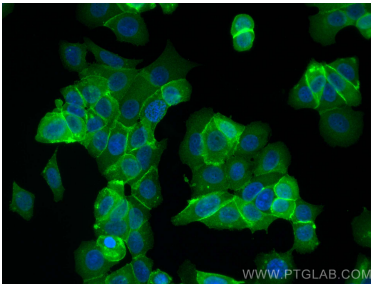
fetal human brain tissue were subjected to SDS PAGE followed by western blot with 66253-1-Ig (NESP55,GNAS Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



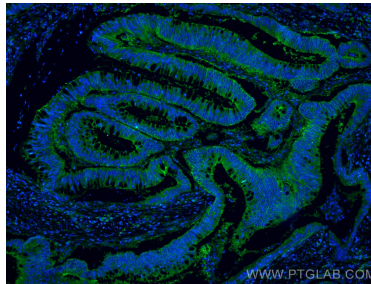
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66253-1-Ig (GNAS antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66253-1-Ig (GNAS antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using GNAS antibody (66253-1-Ig, Clone: 1A9C10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human colon cancer tissue using GNAS antibody (66253-1-Ig, Clone: 1A9C10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).