

For Research Use Only

# NESP55,GNAS Recombinant monoclonal antibody

Catalog Number:81802-2-RR



## Basic Information

|                                                                |                                              |                                                                            |
|----------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>81802-2-RR                           | <b>GenBank Accession Number:</b><br>BC002722 | <b>Purification Method:</b><br>Protein A purification                      |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>2778                | <b>CloneNo.:</b><br>251463D5                                               |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P63092                 | <b>Recommended Dilutions:</b><br>WB: 1:5000-1:50000<br>IF/ICC: 1:200-1:800 |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>GNAS complex locus      |                                                                            |
| <b>Immunogen Catalog Number:</b><br>AG0197                     | <b>Calculated MW:</b><br>45 kDa              |                                                                            |
|                                                                | <b>Observed MW:</b><br>46 kDa                |                                                                            |

## Applications

|                                                  |                                                                                                          |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, IF/ICC, ELISA | <b>Positive Controls:</b>                                                                                |
| <b>Species Specificity:</b><br>human, mouse, rat | <b>WB :</b> SH-SY5Y cells, MCF-7 cells, Jurkat cells, MCGF-7 cells, mouse liver tissue, rat liver tissue |
|                                                  | <b>IF/ICC :</b> MCF-7 cells,                                                                             |

## 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 near two bands represent two different isoforms. The expression profile/molecular weight observed are consistent with what has been described in the literature (PMID : 3258290).

## Storage

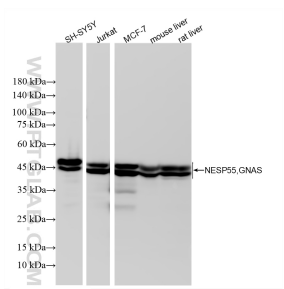
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

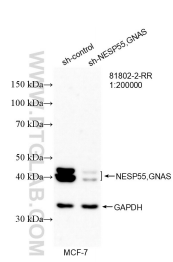
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

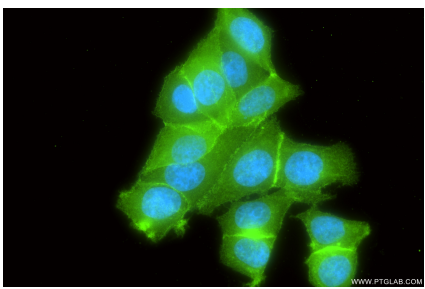
Selected Validation Data



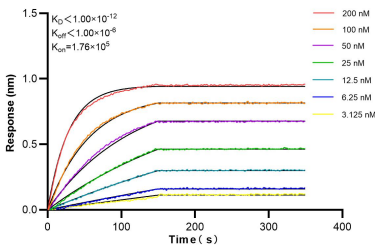
Various lysates were subjected to SDS PAGE followed by western blot with 81802-2-RR (NESP55,GNAS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



WB result of NESP55,GNAS antibody (81802-2-RR; 1:200000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NESP55,GNAS transfected MCF-7 cells.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using NESP55,GNAS antibody (81802-2-RR, Clone: 251463D5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 81802-2-RR against Human NESP55,GNAS were performed. The affinity constant is below 1 pM.