

NESP55,GNAS Recombinant monoclonal antibody

Catalog Number: 81802-2-RR

Basic Information

Catalog Number:

81802-2-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0197

GenBank Accession Number:

BC002722

GeneID (NCBI):

2778

UNIPROT ID:

P63092

Full Name:

GNAS complex locus

Calculated MW:

45 kDa

Observed MW:

46 kDa

Purification Method:

Protein A purification

CloneNo.:

251463D5

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : SH-SY5Y cells, MCF-7 cells, Jurkat cells, MCGF-7 cells, mouse liver tissue, rat liver tissue

IF/ICC : 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:

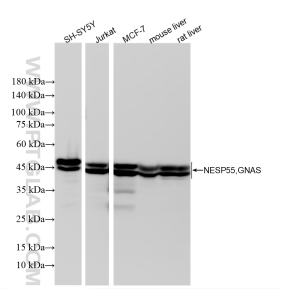
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

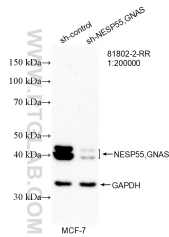
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

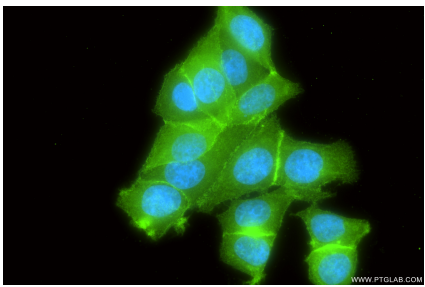
Selected Validation Data



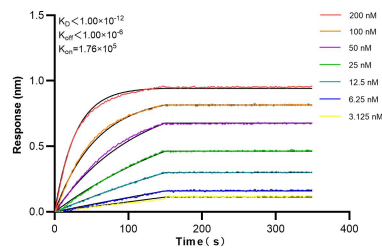
Various lysates were subjected to SDS PAGE followed by western blot with 81802-2-RR (NESP55,GNAS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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.