

Datasheet for 600-101-ML2S**Anti-PI3 Kinase p55 gamma Antibody****Overview**

Description:	Anti-PI3 Kinase p55 gamma (PIK3R3) (GOAT) Antibody - 600-101-ML2S
Item No.:	600-101-ML2S
Size:	25 µL
Applications:	IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Goat

Product Details

Background:	PI 3-Kinases (phosphoinositide 3-kinases, PI 3-Ks) are a family of lipid kinases capable of phosphorylating the 3'OH of the inositol ring of phosphoinositides. They are responsible for coordinating a diverse range of cell functions including proliferation and survival. PIK3R3 (Phosphoinositide-3-Kinase Regulatory Subunit 3) binds to activated (phosphorylated) protein-tyrosine kinases through its SH2 domain and regulates their kinase activity. During insulin stimulation, it also binds to IRS-1. Anti-PIK3R3 Antibody is useful for researchers interested in cancer research, Asbestos-related lung carcinomas, intravenous Leiomyomatosis, ERK signaling, and mTOR Pathways.
Synonyms:	Goat Anti-PI3 Kinase p55 gamma Antibody, Goat Anti-PIK3R3 Antibody, Anti-p55 gamma Antibody, Phosphoinositide-3-Kinase Regulatory Subunit 3, Phosphatidylinositol 3-Kinase 55 KDa Regulatory Subunit Gamma, Phosphoinositide-3-Kinase, Regulatory Subunit 3 (Gamma), PtdIns-3-Kinase Regulatory Subunit P55-Gamma, PI3-Kinase Regulatory Subunit Gamma, PI3K Regulatory Subunit Gamma, PI3-Kinase Subunit P55-Gamma, P55PIK, Phosphatidylinositol 3-Kinase, Regulatory Subunit, Polypeptide 3 (P55, Gamma), Phosphatidylinositol 3-Kinase Regulatory Subunit Gamma, Phosphoinositide-3-Kinase Regulatory Subunit Gamma, PtdIns-3-Kinase Regulatory Subunit Gamma, P55-GAMMA, P55
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PIK3R3
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Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PI3 Kinase p55 gamma antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to a near N-Terminal portion of human PI 3 Kinase p55 gamma conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This affinity purified antibody is directed against human PI 3 Kinase p55 gamma. This product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with the antigen based on 100% homology with the immunizing sequence to mouse and rat, 94.1% homology to bovine.
Relevant Links:	• UniProtKB - Q92569 • NCBI - NP_001107644.1 • GeneID - 8503

Application Details

Tested Applications:	IF, IHC, WB
Application Note:	Anti-PI3 Kinase p55 gamma Antibody has been tested in WB, IF, and IHC. Expect bands ~44, 47, 54kDa in western blot using appropriate tissues or lysates. Positive control used: mouse testis in WB; A431 cells in IF; Human testis and Human tonsil tissue in IHC.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 50,000
IF:	15 µg/ml
IHC:	1:100
WB:	1:1000

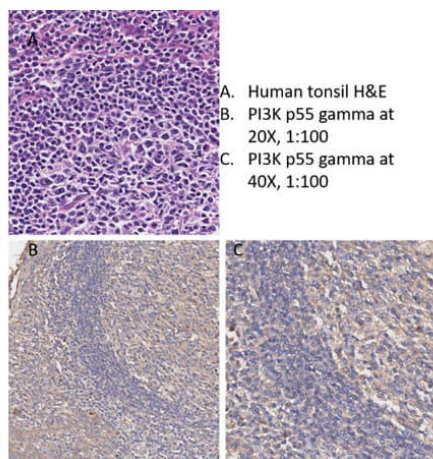
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.02 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

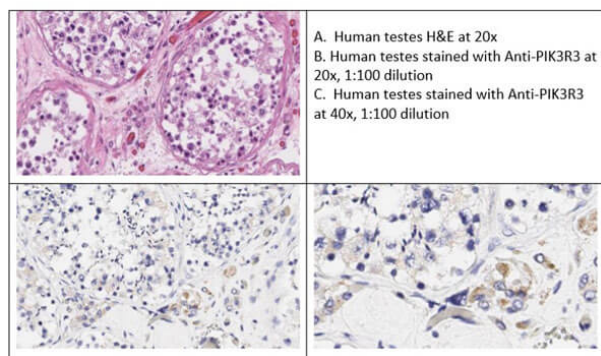
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



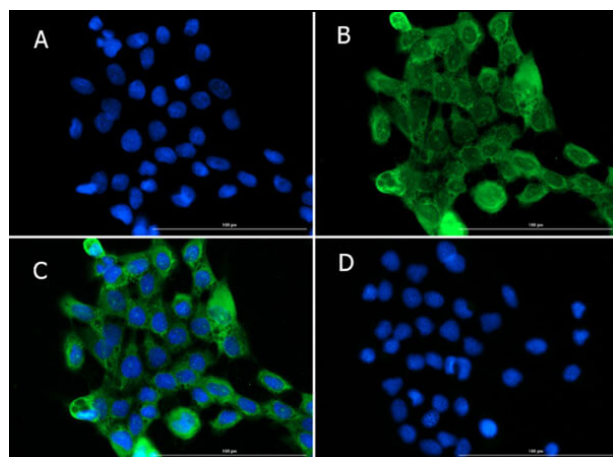
Immunohistochemistry

Immunohistochemistry of Goat anti-PIK3R3 Antibody.
 Tissue: Human Tonsil. Fixative: none. Antigen Retrieval: HIER using Citrate buffer for 20 minutes. Primary Antibody: Anti-PI 3 Kinase p55 gamma antibody at 1:100 for 30 minutes at RT. Secondary Antibody: Donkey anti-Goat HRP at 4µL/mL for 2 minutes at RT. Counterstain: Hematoxylin. Substrate: DAB. Results: PIK3R3 showed universal tonsillar staining with increased cytoplasmic expression in germinal centers.



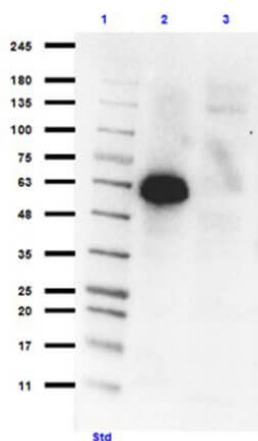
Immunohistochemistry

Immunohistochemistry of Goat anti-PIK3R3 Antibody.
 Tissue: Human Testes. Fixative: none. Antigen Retrieval: HIER using Citrate buffer for 20 minutes. Primary Antibody: Anti-PI 3 Kinase p55 gamma antibody at 1:100 for 30 minutes at RT. Secondary Antibody: Ready-to-Use Donkey anti-Goat HRP. Counterstain: Hematoxylin. Substrate: DAB. Results: PIK3R3 shows diffuse weak cytoplasmic expression in human testis for all germ cells and Leydig cells.



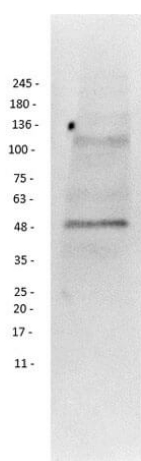
Immunofluorescence Microscopy

Immunofluorescence of Goat Anti-PIK3R3 Antibody. Cell Line: A431 Cells. Fixation: 100% MeOH. Permeabilization: 0.3% Triton X-100. Primary Antibody: Anti-PI 3 Kinase p55 gamma Antibody at 15µg/mL overnight at 2-8°C. Secondary Antibody: Donkey Anti-Goat IgG DyLight™488 (p/n 605-741-125) at 15µg/mL for 1hr at RT. Nuclear Counterstain: DAPI. Localization: Cytosol (UniProtKB), Nucleoplasm (HPA) distinct punctate staining in nucleus could indicate nucleoplasm. Staining: (A) DAPI, (B) Anti-PIK3R3 + secondary, (C) A+B merge, (D) secondary only.



Western Blot

Western Blot of Goat Anti-PIK3R3 Antibody. Lane 1: Opal PreStained Molecular Weight Marker (p/n MB-210-0500) . Lane 2: PIK3R3 overexpressing lysate HEK293T lysate [+]. Lane 3: HEK293T Empty vector lysate [-]. Primary Antibody: Anti-PI 3 Kinase p55 gamma antibody at 1:1000 overnight at 2-8°C. Secondary Antibody: Donkey Anti-Goat IgG HRP (p/n 605-703-002) at 1:40,000 for 30 minutes at RT. Block: BlockOut Buffer (p/n MB-073). Predicted MW: ~54kDa overexpressed. ~44, 47, 54kDa endogenous human. Observed MW: ~57-65kDa. Exposure: 75 sec.



Western Blot

Western Blot of Goat Anti-PIK3R3 Antibody. Lane 1: Mouse Testes Lysate. Primary Antibody: Anti-PI 3 Kinase p55 gamma antibody at 1:1000 overnight at 2-8°C. Secondary Antibody: Donkey Anti-Goat IgG HRP (p/n 605-703-125) at 1:5000 for 30 minutes at RT. Block: BlockOut Buffer (p/n MB-073). Predicted MW: ~54kDa mouse. Observed MW: ~50kDa. Exposure: 1 sec.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.