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Datasheet for 600-101-ML2

Anti-PI3 Kinase p55 gamma Antibody

Overview

Description:	Anti-PI3 Kinase p55 gamma (PIK3R3) (GOAT) Antibody - 600-101-ML2
Item No.:	600-101-ML2
Size:	100 µg
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

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 PI3 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

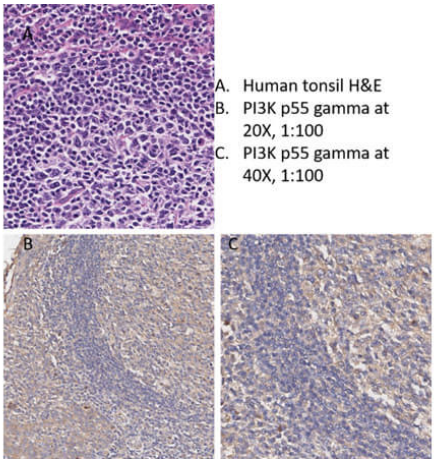
Formulation

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

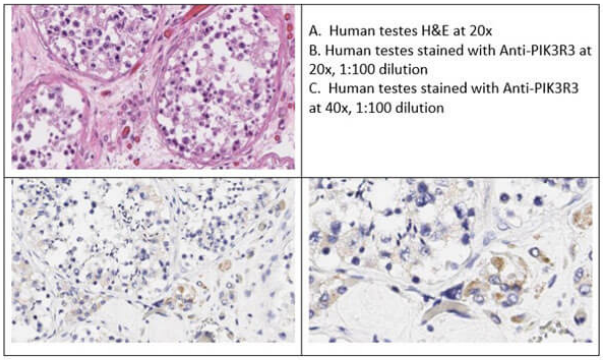
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

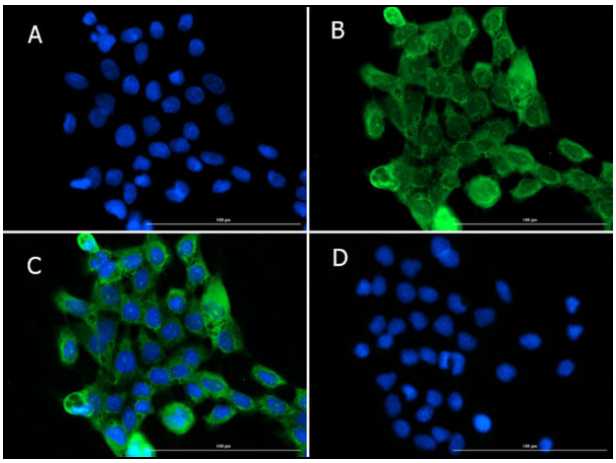
Images



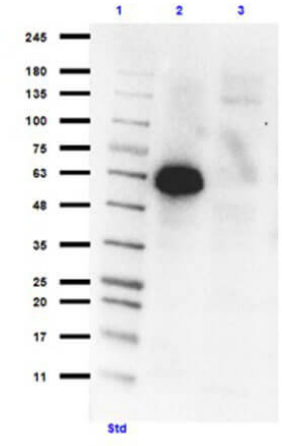
Immunohistochemistry
Immunohistochemistry of Goat anti-PIK3R3 Antibody. Tissue: Human Tonsil. Fixative: none. Antigen Retrieval: HIER using Citrate buffer for 20 minutes. Primary Antibody: Anti-PI 3 Kinase p55 gamma antibody at 1:100 for 30 minutes at RT. Secondary Antibody: Donkey anti-Goat HRP at 4µL/mL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



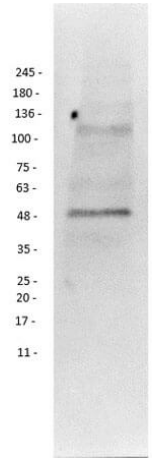
Immunohistochemistry
Immunohistochemistry of Goat anti-PIK3R3 Antibody. Tissue: Human Testes. Fixative: none. Antigen Retrieval: HIER using Citrate buffer for 20 minutes. Primary Antibody: Anti-PI 3 Kinase p55 gamma antibody at 1:100 for 30 minutes at RT. Secondary Antibody: Ready-to-Use Donkey anti-Goat 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), Nucleoplasms (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

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