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Datasheet for ABIN7269328

anti-PIK3C3 antibody

3 Images

Overview

Quantity:	100 µL
Target:	PIK3C3
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PIK3C3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Purpose:	PIK3C3/VPS34 Rabbit mAb
Immunogen:	A synthesized peptide derived from human PIK3C3/VPS34
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PIK3C3
Alternative Name:	PIK3C3 (PIK3C3 Products)
Background:	Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-

Target Details

phosphate, different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. As part of PI3KC3-C1, promotes endoplasmic reticulum membrane curvature formation prior to vesicle budding. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2. Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity.,VPS34, Vps34, hVps34,AMPK Signaling Pathway,Angiogenesis,Apoptosis,Apoptosis_Inhibition of Apoptosis,Apoptosis_Mitochondrial Control of Apoptosis,Apoptosis,Autophagy,Autophagy_Regulator,Cardiovascular,Cell Adhesion,Cell Biology & Developmental Biology,Cell Intrinsic Innate Immunity Signaling Pathway,Cytoskeleton,Cytoskeleton_Actins,Cytoskeleton_Microtubules,Endocrine & Metabolism,Epigenetics & Nuclear Signaling,ErbB-HER Signaling Pathway,ESC Pluripotency and Differentiation,IL-6 Receptor Signaling Pathway,Immunology & Inflammation,Innate Immunity_TLR Signaling,Kinase,Lipid Metabolism,MAPK-Erk Signaling Pathway,MAPK-JNK Signaling Pathway,mTOR Signaling Pathway,NF-kB Signaling Pathway,PI3K-Akt Signaling Pathway,PI3K-Akt Signaling Pathway_PI3Ks and related,Signal Transduction,T Cell Receptor Signaling Pathway,TGF-b-Smad Signaling Pathway,Toll-like Receptor Signaling Pathway,Translation Control,Translational Control_Regulation of eIF4 and p70 S6 Kinase,Warburg Effect,PIK3C3

Molecular Weight: 100kDa

Gene ID: 5289

UniProt: [Q8NEB9](#)

Pathways: [AMPK Signaling](#), [Activation of Innate immune Response](#), [Inositol Metabolic Process](#), [Toll-Like Receptors Cascades](#), [Autophagy](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:200

Restrictions: For Research Use only

Handling

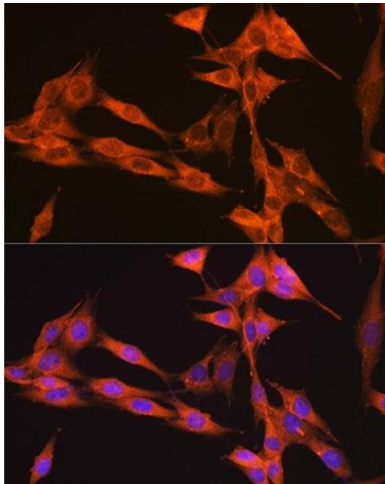
Format: Liquid

Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Handling

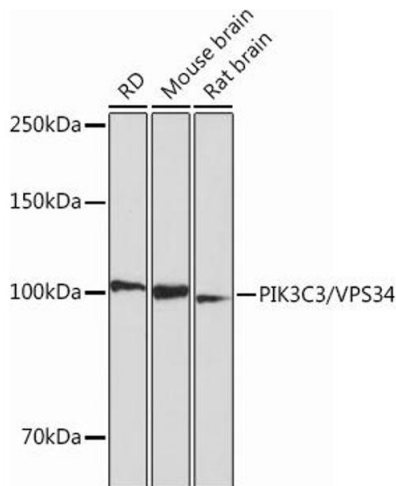
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



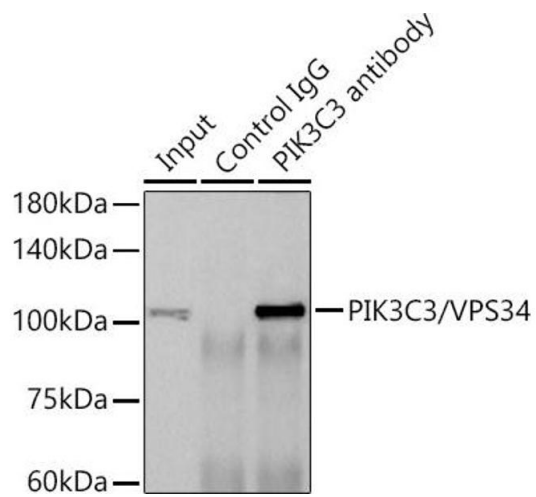
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH-3T3 cells using PIK3C3/VPS34 Rabbit mAb (ABIN7269328) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PIK3C3/VPS34 Rabbit mAb (ABIN7269328) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunoprecipitation

Image 3. Immunoprecipitation analysis of 600 μg extracts of Rat brain cells using 3 μg PIK3C3/VPS34 antibody (ABIN7269328). Western blot was performed from the immunoprecipitate using PIK3C3/VPS34 antibody (ABIN7269328) at a dilution of 1:500.