Datasheet for ABIN389756

anti-PIK3C3 antibody (pSer282)

1 Image

Go to Product page

Overview

Quantity:	400 µL
Target:	PIK3C3
Binding Specificity:	pSer282
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3C3 antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This PI3KC3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S282 of human PI3KC3.
Clone:	RB11900
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat, X
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PIK3C3
Alternative Name:	PI3KC3 (PIK3C3 Products)

Target Details

Background:	PI3KC3 is a catalytic subunit of the PI3K complex involved in the transport of lysosomal enzyme precursors to lysosomes. This enzyme acts catalytically to convert 1-phosphatidyl-1D-myo-inositol to 1-phosphatidyl-1D-myo-inositol 3-phosphate. Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). The regulation of the Beclin 1-PI3KC3 complex lipid kinase activity is a critical element in the autophagy signaling pathway.
Molecular Weight:	101549
Gene ID:	5289
NCBI Accession:	NP_002638
UniProt:	Q8NEB9
Pathways:	AMPK Signaling, Activation of Innate immune Response, Inositol Metabolic Process, Toll-Like Receptors Cascades, Autophagy

Application Details

Application Notes:	DB: 1:500
Restrictions:	For Research Use only

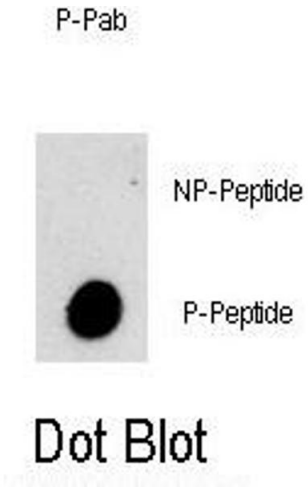
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Handling

Expiry Date:	6 months

Images



Dot Blot

Image 1. Dot blot analysis of Phospho-PI3KC3- Antibody (ABIN389756 and ABIN2839682) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 µg per ml.