

For Research Use Only

PIK3C2A Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 88380-1-PBS



Basic Information

Catalog Number: 88380-1-PBS	GenBank Accession Number: BC113658	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 5286	CloneNo.: 260864A5
Source: Rabbit	UNIPROT ID: O00443	
Isotype: IgG	Full Name: phosphoinositide-3-kinase, class 2, alpha polypeptide	
Immunogen Catalog Number: AG16894	Calculated MW: 1686 aa, 191 kDa	
	Observed MW: 191 kDa	

Applications

Tested Applications:
WB, IF/ICC, Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

88380-1-PBS targets PIK3C2A as part of a matched antibody pair:

MP03538-1: 88380-1-PBS capture and 88380-3-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

PIK3C2A, also known as PI3K-C2alpha, is a member of phosphatidylinositol -4- phosphate 3- kinase (PI3K) family. Genes in this family play a key role in cell signal transduction. The main function of PIK3C2A is to participate in the metabolism of phosphatidylinositol in cells, specifically, it is responsible for converting phosphatidylinositol -4- phosphate (PIP) into phosphatidylinositol -3,4- diphosphate (PIP2).

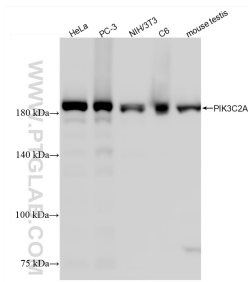
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

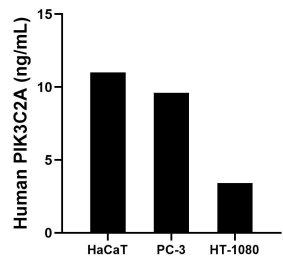
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

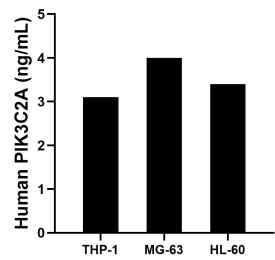
Selected Validation Data



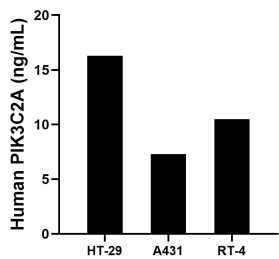
Various lysates were subjected to SDS PAGE followed by western blot with 88380-1-RR (PIK3C2A antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88380-1-PBS in a different storage buffer formulation.



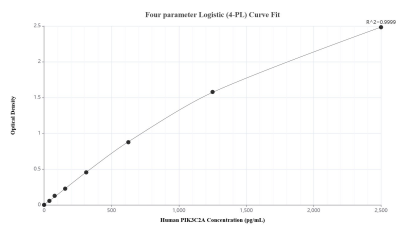
The mean PIK3C2A concentration was determined to be 11.0 ng/mL in HaCaT cell extract based on a 1.2 mg/mL extract load, 9.6 ng/mL in PC-3 cell extract based on a 1.2 mg/mL extract load and 3.4 ng/mL in HT-1080 cell extract based on a 1.2 mg/mL extract load.



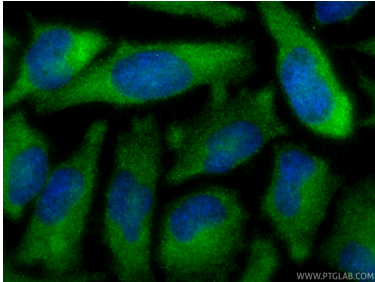
The mean PIK3C2A concentration was determined to be 3.1 ng/mL in THP-1 cell extract based on a 1.2 mg/mL extract load, 4.0 ng/mL in MG-63 cell extract based on a 1.2 mg/mL extract load and 3.4 ng/mL in HL-60 cell extract based on a 1.2 mg/mL extract load.



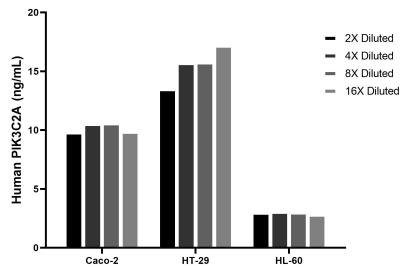
The mean PIK3C2A concentration was determined to be 16.3 ng/mL in HT-29 cell extract based on a 1.2 mg/mL extract load, 7.3 ng/mL in A431 cell extract based on a 1.2 mg/mL extract load and 10.5 ng/mL in RT-4 cell extract based on a 1.2 mg/mL extract load.



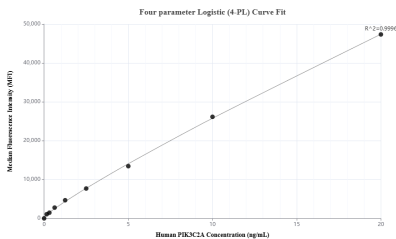
Sandwich ELISA standard curve of MP03538-1, Human PIK3C2A Recombinant Matched Antibody Pair - PBS only. 88380-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag16894. 88380-3-PBS was HRP conjugated as the detection antibody. Range: 39.1-2500 pg/mL



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PIK3C2A antibody (88380-1-RR, Clone: 260864A5) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 88380-1-PBS in a different storage buffer formulation.



The mean PIK3C2A concentration was determined to be 10.2 ng/mL in Caco-2 cell extract based on a 1.2 mg/mL extract load, 15.5 ng/mL in HT-29 cell extract based on a 1.2 mg/mL extract load, 3.0 ng/mL in HL-60 cell extract based on a 1.2 mg/mL extract load.



Cytometric bead array standard curve of MP03538-1, PIK3C2A Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 88380-1-PBS. Detection antibody: 88380-3-PBS. Standard: Ag16894. Range: 0.156-20 ng/mL