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Datasheet for 600-401-DP1

PIST Antibody

Overview

Description:	Anti-PIST (RABBIT) Antibody - 600-401-DP1
Item No.:	600-401-DP1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components and is negatively regulated by TOR (Target of rapamycin). PIST, a PDZ-containing protein, was discovered in a yeast two-hybrid system as a binding partner to Beclin-1, a Bcl-2-interacting protein homologous to the yeast autophagy gene apg6. Experiments with mutant PIST proteins lacking the PDZ domain showed that PIST interaction with Beclin-1 through its coiled-coil domain can modulate Beclin-1 activity and suggest that PIST interactions with other proteins through its PDZ domain may regulate the activity of PIST and Beclin-1.
Synonyms:	PIST Antibody, CAL, FIG, PIST, GOPC1, dJ94G16.2, CAL, Golgi-associated PDZ and coiled-coil motif-containing protein, CFTR-associated ligand
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GOPC
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-PIST antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the internal region of human PIST.
Purity/Specificity:	Anti-PIST Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with PIST from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9HD26 • GeneID - 57120 • NCBI - AAG00572

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-PIST Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 51 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IF:	20 µg/mL
IHC:	1 µg/mL
WB:	1-4 µg/mL

Formulation

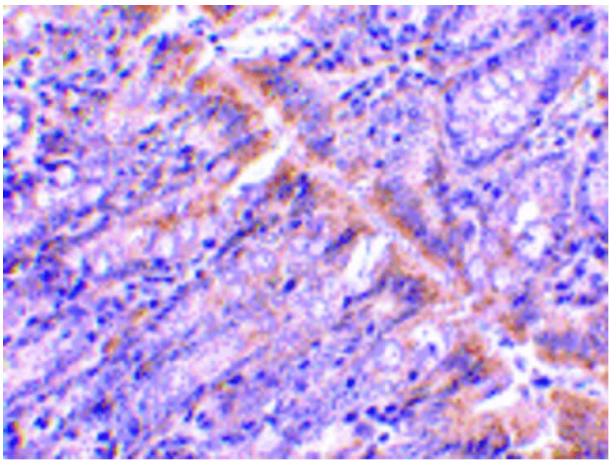
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

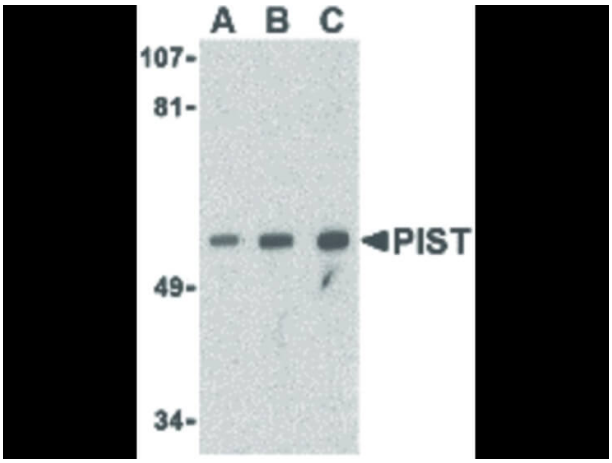
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted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

Images



Immunohistochemistry
Immunohistochemistry of PIST antibody. Tissue: rat colon tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: PIST antibody at 1 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: PIST is located in the cell junction, cell membrane, cell projection, cytoplasm, golgi apparatus, membrane, postsynaptic cell membrane, and synapse. Staining: PIST is stained with hematoxylin purple nuclear counterstain.

Immunofluorescence Microscopy
Immunofluorescence Microscopy of PIST antibody. Cell Type: Rat colon cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: PIST antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: PIST is located in the cell junction, cell membrane, cell projection, cytoplasm, golgi apparatus, membrane, postsynaptic cell membrane, and synapse. Staining: PIST as red fluorescent signal.



Western Blot

Western Blot of PIST antibody in PC-3 cell lysate. with PIST antibody at (A) 1, (B) 2 and (C) 4 µg/mL. Lane A: PIST antibody at 1 µg/mL. Lane B: PIST antibody at 2 µg/mL. Lane C: PIST antibody at 4 µg/mL. Load: 35 µg per lane. Primary antibody: PIST antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 51 kDa, 54 kDa for PIST. Other band(s): PIST splice variants and isoforms.

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