

Datasheet for 600-401-DPO**PIST Antibody****Overview**

Description:	Anti-PIST (RABBIT) Antibody - 600-401-DPO
Item No.:	600-401-DPO
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
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 <i>apg6</i> . 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, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-PIST antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the C-terminus 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:	10 µg/mL
IHC:	2 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

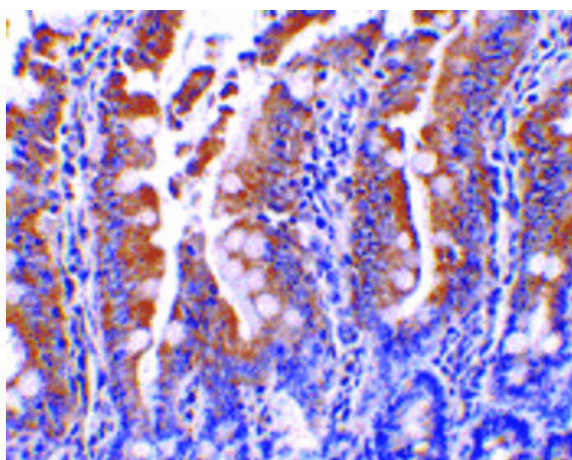
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

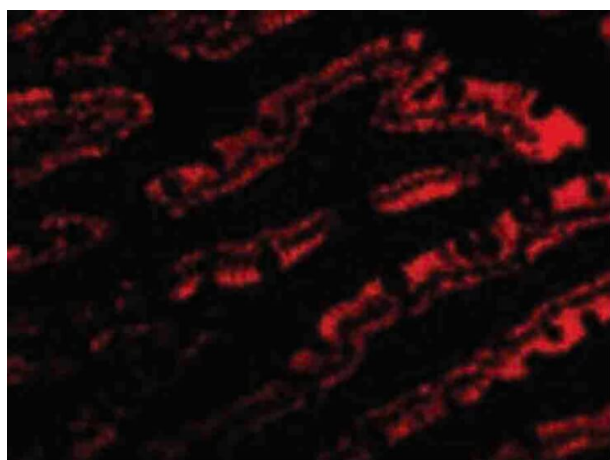
Expiration: Expiration date is one (1) year from date of receipt.

Images



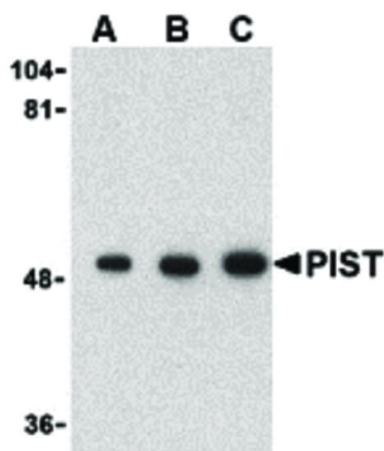
Immunohistochemistry

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 10 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 rat colon cell lysate. Lane A: PIST antibody at 1 $\mu\text{g/mL}$. Lane B: PIST antibody at 2 $\mu\text{g/mL}$. Lane C: PIST antibody at 4 $\mu\text{g/mL}$. 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, 50 kDa for PIST. Other band(s): PIST splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.