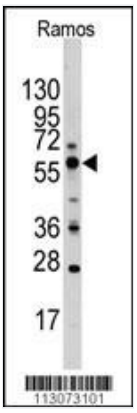
PIST Antibody – Rabbit Polyclonal

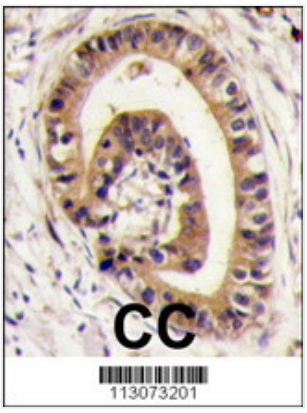
PRODUCT OVERVIEW

Product Name	PIST, Polyclonal Antibody
Full Product Name	PIST, CT (Golgi-associated PDZ and Coiled-coil Motif-containing Protein, PDZ Protein Interacting Specifically with TC10, CFTR-associated Ligand, Fused in Glioblastoma, GOPC, CAL, FIG) (FITC)
Product Gene Name	anti-PIST antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PIST. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	50kDa
OMIM	606845
3D Structure	ModBase 3D Structure for Q9HD26
Immunogen	Synthetic peptide selected from the C-terminal region of human PIST (KLH).
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PIST antibody	Antibodies; Golgi Proteins
Applications Tested/Suitable for anti-PIST antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-PIST antibody	IHC: 1:10-1:50 FLISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-PIST antibody	MBS6493633 is an antibody targeting PIST. Also known as PIST, CT (Golgi-associated PDZ and Coiled-coil Motif-containing Protein, PDZ Protein Interacting Specifically with TC10, CFTR-associated Ligand, Fused in Glioblastoma, GOPC, CAL, FIG) (FITC). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-PIST antibody	1. Li, X., Protein Sci. 15(9), 2149-2158 (2006). 2. Ito, H., Biochem. J. 397(3), 389-398 (2006). 3. Wente, W., J. Biol. Chem. 280(37), 32419-32425 (2005).

Other Notes	Small volumes of anti-PIST antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PIST antibody
Western blot analysis of PIST Antibody (C-term) in Ramos cell line lysates (35ug/lane). PIST (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-PIST antibody
Formalin-fixed and paraffin-embedded human colon carcinoma tissue reacted with PIST antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PIST. It may not necessarily be applicable to this product.

NCBI GI #	9966877
NCBI GeneID	57120
NCBI Accession #	NP_065132
UniProt Primary Accession #	Q9HD26
UniProt Related Accession #	Q9HD26
GenBank Nucleotide #	NM_020399.4
NCBI Official Full Name	Golgi-associated PDZ and coiled-coil motif-containing protein isoform a
NCBI Official Synonym Full Names	golgi associated PDZ and coiled-coil motif containing
NCBI Official Symbol	GOPC
NCBI Official Synonym Symbols	CAL; FIG; PIST; GOPC1; dJ94G16.2
UniProt Protein Name	Golgi-associated PDZ and coiled-coil motif-containing protein
UniProt Synonym Protein Names	CFTR-associated ligand; Fused in glioblastoma; PDZ protein interacting specifically with TC10; PIST
Protein Family	Pistil-specific extensin-like protein
UniProt Gene Name	GOPC
UniProt Synonym Gene Names	CAL; FIG; PIST
UniProt Entry Name	GOPC_HUMAN
NCBI Protein Information	Golgi-associated PDZ and coiled-coil motif-containing protein
NCBI Summary for PIST	This gene encodes a Golgi protein with a PDZ domain. The PDZ domain is globular and proteins which contain them bind other proteins through short motifs near the C-termini. Mice which are deficient in the orthologous protein have globozoospermia and are infertile. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

UniProt Comments for PIST	PIST: a ubiquitously expressed peripheral membrane protein that contains a PDZ domain and two coiled-coil regions. Associates with the Golgi apparatus and plasma membrane, regulating intracellular protein trafficking and degradation. May play a role in autophagy, and regulate the intracellular trafficking of the ADRB1 receptor. Interacts with GOLGA3 and STX6. The PDZ domain is known to mediate interactions with CLCN3-iso2, ACCN3, CFTR, SSTR5, FDZ5, ADRB1, FZD8, GRID2, mGluR5, mGluR1. Mutations of PDZ residues S302D, T304E, K348D, K350E abrogates the ability of PIST to interact with the CFTR C terminus. May regulate CFTR chloride currents and acid-induced ACCN3 currents by modulating cell surface expression of both channels. Overexpression results in CFTR intracellular retention and degradation in the lysosomes. Enriched in synaptosomal and postsynaptic densities (PSD) fractions. Expressed in cell bodies and dendrites of Purkinje cells. Localized at the trans-Golgi network (TGN) of spermatids and the medulla of round spermatides. An oncogenic fusion protein between PIST (aka FIG) and the receptor tyrosine kinase ROS is found in glioblastoma multiform. Unlike other fusion RTK oncogenes, he mechanism of activation of PIST-ROS does not appear to be dimerization. Rather, activation of the fused ROS kinase appears to depend upon translocation to the golgi apparatus: deletion of 2nd coiled-coil region, crucial for Golgi localization, appears to eliminate the transformation capacity of PIST-ROS. Three alternatively spliced human isoforms have been described. Protein type: Membrane protein, peripheral Chromosomal Location of Human Ortholog: 6q21 Cellular Component: Golgi membrane; Golgi apparatus; postsynaptic membrane; trans-Golgi network transport vesicle; protein complex; membrane; postsynaptic density; cytoplasm; dendrite; plasma membrane; cell junction Molecular Function: protein C-terminus binding; protein binding; protein homodimerization activity; frizzled binding Biological Process: Golgi to plasma membrane transport; protein transport; ER to Golgi vesicle-mediated transport; apical protein localization; regulation of catalytic activity; spermatid nuclear differentiation; protein homooligomerization; cytoplasmic sequestering of CFTR protein Disease: Spermatogenic Failure 6
Research Articles on PIST	**1.** PIST, a Golgi-associated PDZ domain-containing protein, interacts with PCDH15 in the plasma membrane.
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