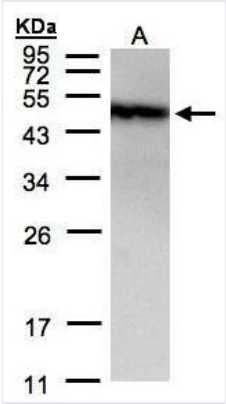
# PIST Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PIST, Polyclonal Antibody |
| **Full Product Name** | PIST Antibody |
| **Product Gene Name** | anti-PIST antibody |
| **Product Synonym Names** | CAL antibody; FIG antibody; GOPC1 antibody; PIST antibody; dJ94G16.2 antibody; GOPC antibody; CFTR-associated ligand antibody; fused in glioblastoma antibody; PDZ protein interacting specifically with TC10 antibody; dJ94G16.2 PIST antibody; Golgi-associat |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Rabbit IgG in 1XPBS, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative. |
| **Purity/Purification** | Antibodies were purified by antigen-affinity chromatography. |
| **Concentration** | 1 mg/ml (lot specific) |
| **Specificity** | The antibody detects endogenous levels of total PIST protein. |
| **Preparation and Storage** | Store at -20 degree C |
| **Molecular Weight** | 35,130 Da |
| **OMIM** | 606845 |
| **3D Structure** | ModBase 3D Structure for Q9HD26 |
| **Immunogen Type** | Peptide |
| **Immunogen Description** | Synthetic peptide corresponding to a region within amino acids 400 and 462 of PIST. |
| **Target Name** | PIST |
| **Product Categories/Family for anti-PIST antibody** | Total protein Ab |
| **Applications Tested/Suitable for anti-PIST antibody** | Western Blot (WB) |
| **Application Notes for anti-PIST antibody** | Western blotting: 1:500-1:3000 |
| **Related Product Information for anti-PIST antibody** | PIST is a PDZ domain-containing Golgi protein. PDZ domains contain approximately 90 amino acids and bind the extreme C terminus of proteins in a sequence-specific manner.[supplied by OMIM] |
| **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. |
| **Searchable Terms for PIST purchase** | MBS9403274 is an antibody targeting PIST. Also known as PIST Antibody. Reactive in Human. Host: Rabbit. |




**Testing Data of anti-PIST antibody**
Sample(30 mug of whole cell lysate)A:A431 12% SDS PAGE diluted at 1:1500

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 62868213 |
| **NCBI GeneID** | 57120 |
| **NCBI Accession #** | NP_001017408.1 |
| **UniProt Primary Accession #** | Q9HD26 |
| **UniProt Secondary Accession #** | Q59FS4; Q969U8; A6NM30 |
| **UniProt Related Accession #** | Q9HD26 |
| **GenBank Nucleotide #** | NM_001017408.2 |
| **NCBI Official Full Name** | Golgi-associated PDZ and coiled-coil motif-containing protein isoform b |
| **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] |

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| **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.<br><br>Protein type: Membrane protein, peripheral<br><br>Chromosomal Location of Human Ortholog: 6q21<br><br>Cellular Component: Golgi membrane; Golgi apparatus; postsynaptic membrane; trans-Golgi network transport vesicle; protein complex; membrane; postsynaptic density; dendrite; cytoplasm; plasma membrane; cell junction<br><br>Molecular Function: protein C-terminus binding; protein binding; protein homodimerization activity; frizzled binding<br><br>Biological Process: Golgi to plasma membrane transport; ER to Golgi vesicle-mediated transport; protein transport; apical protein localization; regulation of catalytic activity; spermatid nuclear differentiation; protein homooligomerization; cytoplasmic sequestering of CFTR protein<br><br>Disease: Spermatogenic Failure 6 |
| **Research Articles on PIST** | **1.** Six out of 65 (9%) BTC patients were positive for the FIG-ROS1 fusion, comprising two out of 14 (14%) gallbladder carcinoma (GBC) patients and four out of 25 (16%) extrahepatic cholangiocarcinoma (ECC) patients. |
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