

PIST Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7262c**Specification**

PIST Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9HD26](#)**PIST Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 57120**Other Names**

Golgi-associated PDZ and coiled-coil motif-containing protein, CFTR-associated ligand, Fused in glioblastoma, PDZ protein interacting specifically with TC10, PIST, GOPC, CAL, FIG

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7262c](/product/products/AP7262c) was selected from the Center region of human PIST. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PIST Antibody (Center) Blocking Peptide - Protein Information**Name** GOPC ([HGNC:17643](#))**Function**

Plays a role in intracellular protein trafficking and degradation (PubMed: [11707463](http://www.uniprot.org/citations/11707463), PubMed: [14570915](http://www.uniprot.org/citations/14570915), PubMed: [15358775](http://www.uniprot.org/citations/15358775)). May regulate CFTR chloride currents and acid-induced ASIC3 currents by modulating cell surface expression of both channels (By similarity). May also regulate the intracellular trafficking of the ADR1B receptor (PubMed: [15358775](http://www.uniprot.org/citations/15358775)). May play a role in autophagy (By similarity). Together with MARCHF2 mediates the ubiquitination and lysosomal degradation of CFTR (PubMed: [23818989](http://www.uniprot.org/citations/23818989)). Overexpression results in CFTR intracellular retention and lysosomal degradation in the lysosomes (PubMed: [23818989](http://www.uniprot.org/citations/23818989)).

href="http://www.uniprot.org/citations/11707463" target="_blank">11707463, PubMed:14570915).

Cellular Location

Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein Synapse. Postsynaptic density. Cell projection, dendrite. Note=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.

Tissue Location

Ubiquitously expressed.

PIST Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PIST Antibody (Center) Blocking Peptide - Images**PIST Antibody (Center) Blocking Peptide - Background**

PDZ domains contain approximately 90 amino acids and bind the extreme C terminus of proteins in a sequence-specific manner. PIST, a PDZ domain-containing Golgi 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.

PIST Antibody (Center) Blocking Peptide - References

Li,X., Protein Sci. 15 (9), 2149-2158 (2006) Ito,H., Biochem. J. 397 (3), 389-398 (2006) Wentz,W., J. Biol. Chem. 280 (37), 32419-32425 (2005)