

Goat Anti-PIST / FIG / GOPC Antibody
Peptide-affinity purified goat antibody
Catalog # AF1833a**Specification**

Goat Anti-PIST / FIG / GOPC Antibody - Product Information

Application	WB, IF, E
Primary Accession	O9HD26
Other Accession	NP_001017408 , 57120
Reactivity	Human
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	50520

Goat Anti-PIST / FIG / GOPC Antibody - 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

Dilution

WB~~1:1000
IF~~1:50~200
E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-PIST / FIG / GOPC Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PIST / FIG / GOPC Antibody - Protein Information**Name** GOPC ([HGNC:17643](#))**Function**

Plays a role in intracellular protein trafficking and degradation (PubMed:11707463, PubMed:14570915, PubMed: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). May play a role in autophagy (By similarity). Together with MARCHF2 mediates the ubiquitination and lysosomal degradation of CFTR (PubMed:23818989). Overexpression results in CFTR intracellular retention and lysosomal degradation in the lysosomes (PubMed: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.

Goat Anti-PIST / FIG / GOPC Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-PIST / FIG / GOPC Antibody - Images



AF1833a (0.05 µg/ml) staining of Human Frontal Cortex lysate (35 µg protein in RIPA buffer).

Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-PIST / FIG / GOPC Antibody - Background

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.

Goat Anti-PIST / FIG / GOPC Antibody - References

Syntaxin 6 and CAL mediate the degradation of the cystic fibrosis transmembrane conductance regulator. Cheng J, et al. Mol Biol Cell, 2010 Apr 1. PMID 20130090.
The relative binding affinities of PDZ partners for CFTR: a biochemical basis for efficient endocytic recycling. Cushing PR, et al. Biochemistry, 2008 Sep 23. PMID 18754678.
Targeting CAL as a negative regulator of DeltaF508-CFTR cell-surface expression: an RNA interference and structure-based mutagenetic approach. Wolde M, et al. J Biol Chem, 2007 Mar 16. PMID 17158866.
Solution structure of GOPC PDZ domain and its interaction with the C-terminal motif of neuroligin. Li X, et al. Protein Sci, 2006 Sep. PMID 16882988.
Identification of a PDZ protein, PIST, as a binding partner for Rho effector Rhotekin: biochemical and cell-biological characterization of Rhotekin-PIST interaction. Ito H, et al. Biochem J, 2006 Aug 1. PMID 16646955.