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

Specification

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

Application	**WB**
Primary Accession	Q9HD26
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

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 lysosomaldegradation 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 Cytomety
- 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.

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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.
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