



Rabbit Anti-PIST antibody

SL11253R

Product Name:	PIST
Chinese Name:	PDZ结构域蛋白GOPC抗体
Alias:	CAL; GOPC; CFTR associated ligand; CFTR-associated ligand; FIG; Fused in glioblastoma; Golgi associated PDZ and coiled coil motif containing; Golgi associated PDZ and coiled coil motif containing protein; Golgi-associated PDZ and coiled-coil motif-containing protein; GOPC_HUMAN; GOPC1; OTTHUMP00000040403; PDZ protein interacting specifically with TC 10; PDZ protein interacting specifically with TC10; PDZ/coiled coil domain binding partner for the rho family GTPase TC 10; PDZ/coiled coil domain binding partner for the rho family GTPase TC10; PIST; Protein interacting specifically with Tc 10; Protein interacting specifically with Tc10; dJ94G16.2; dJ94G16.2 PIST.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PIST:131-230/462
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:[PubMed](#)

PIST (PDZ protein interacting specifically with TC10), also known as GOPC (golgi associated PDZ and coiled-coil motif containing), CAL or FIG, is a 462 amino acid protein that localizes to the cytoplasm, as well as to the membrane of the golgi apparatus and to the cell junction. Expressed ubiquitously and containing one PDZ (DHR) domain, PIST functions as a homooligomer that interacts with a variety of proteins and plays a role in intracellular protein trafficking and degradation. Additionally, PIST is thought to regulate ionic currents via membrane channel modification and may also play a role in autophagy. Chromosomal aberrations in the gene encoding PIST are found in glioblastoma multiform (GBM), a common and aggressive form of brain tumor, suggesting a role for mutated PIST in carcinogenesis. Three isoforms of PIST exist due to alternative splicing events.

Function:

Plays a role in intracellular protein trafficking and degradation. May regulate CFTR chloride currents and acid-induced ACCN3 currents by modulating cell surface expression of both channels. May also regulate the intracellular trafficking of the ADR1B receptor. May play a role in autophagy. Overexpression results in CFTR intracellular retention and degradation in the lysosomes.

Subunit:

Homooligomer. Interacts with FZD5, FZD8, GRID2, BECN1, CSPG5 and CLCN3. May interact with CACNG2 (By similarity). Interacts with STX6, CFTR, ASIC3, GOLGA3, NLGN1 and RHOQ.

Subcellular Location:

Cytoplasm. Golgi apparatus membrane. Golgi apparatus > trans-Golgi network membrane. Cell junction > synapse. Cell junction > synapse > postsynaptic cell membrane > postsynaptic density. Cell projection > dendrite. Enriched in synaptosomal and postsynaptic densities (PSD) fractions (By similarity). Expressed in cell bodies and dendrites of Purkinje cells (By similarity). Localized at the trans-Golgi network (TGN) of spermatids and the medulla of round spermatides.

Tissue Specificity:

Ubiquitously expressed.

DISEASE:

Note=A chromosomal aberration involving GOPC is found in a glioblastoma multiforme sample. An intra-chromosomal deletion del(6)(q21q21) is responsible for the formation of GOPC-ROS1 chimeric protein which has a constitutive receptor tyrosine kinase activity.

Similarity:

Contains 1 PDZ (DHR) domain.

SWISS:**Product Detail:**

Q9HD26

Gene ID:
57120

Database links:

[Entrez Gene: 57120](#) Human

[Entrez Gene: 94221](#) Mouse

[Entrez Gene: 309774](#) Rat

[Omim: 606845](#) Human

[SwissProt: Q9HD26](#) Human

[SwissProt: Q3TAF1](#) Mouse

[SwissProt: Q8BH60](#) Mouse

[Unigene: 191539](#) Human

[Unigene: 390258](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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