

Product datasheet

Anti-PIST antibody ab37036

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Overview

Product name	Anti-PIST antibody
Description	Rabbit polyclonal to PIST
Host species	Rabbit
Specificity	ab37036 recognises PIST.
Tested applications	Suitable for: WB, IHC-P, ICC
Species reactivity	Reacts with: Rat
Immunogen	Synthetic peptide of 16 amino acid from near the carboxy terminus of PIST (Human)
Positive control	WB: Rat colon cell lysate. IHC-P: Rat colon tissue. ICC: Rat colon cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab37036 in the following tested applications.

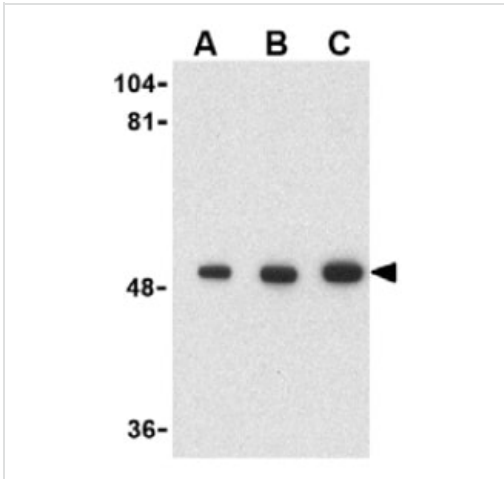
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 4 µg/ml. Predicted molecular weight: 51 kDa.
IHC-P		Use a concentration of 1 µg/ml.
ICC		Use a concentration of 10 µg/ml.

Target

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.
Tissue specificity	Ubiquitously expressed.
Involvement in 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.
Sequence similarities	Contains 1 PDZ (DHR) domain.
Domain	The PDZ domain mediates interactions with FZD5, FZD8, ACCN3, GRID2, CLCN3 (By similarity). Mediates also interaction with CFTR and ADRB1. The coiled-coil region probably mediates association to membranes, targeting to the Golgi, and interactions with GOLGA3, and STX6. May also mediate interaction with RHOQ.
Cellular localization	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.

Images



Western blot - Anti-PIST antibody (ab37036)

Lane 1 : Anti-PIST antibody (ab37036) at 1 µg/ml

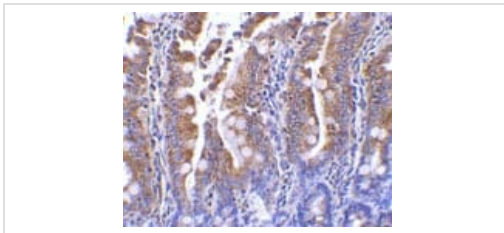
Lane 2 : Anti-PIST antibody (ab37036) at 2 µg/ml

Lane 3 : Anti-PIST antibody (ab37036) at 4 µg/ml

All lanes : rat colon cell lysate

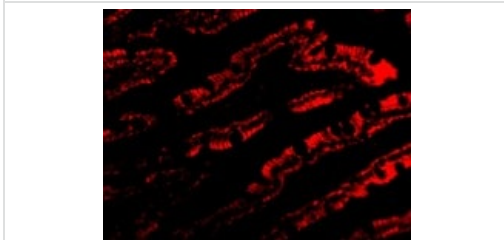
Lysates/proteins at 15 µg per lane.

Predicted band size: 51 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PIST antibody (ab37036)

ab37036 at 1 µg/ml staining PIST in rat colon tissue by IHC.



Immunocytochemistry - Anti-PIST antibody (ab37036)

Immunocytochemical analysis of PIST in Rat Colon cells using ab37036 at 10 µg/mL.

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