

Rabbit CDIPT Polyclonal Antibody | anti-CDIPT antibody

CDIPT Antibody (Center)

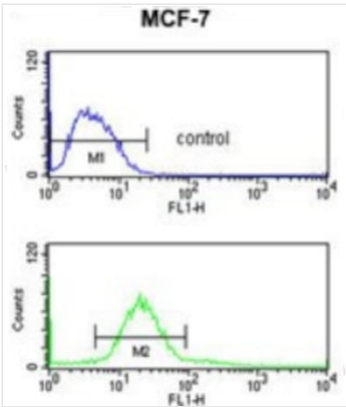
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287291	Rabbit	Human, Mouse Predicted Reactivity: Rat	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

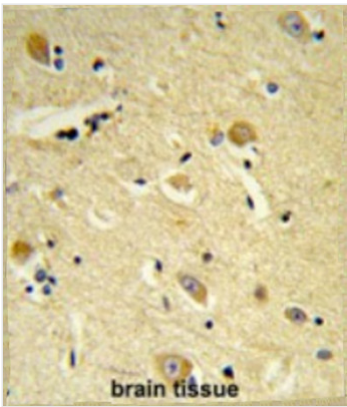
CDIPT; Polyclonal Antibody; CDIPT Antibody (Center); CDP-diacylglycerol--inositol 3-phosphatidyltransferase; Phosphatidylinositol synthase; PI synthase; PtdIns synthase; PIS; PIS1; anti-CDIPT antibody

PRODUCT SPECIFICATIONS

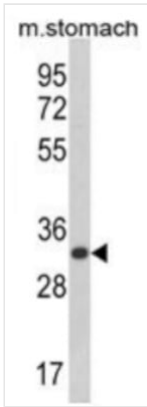
Host	Rabbit
Reactivity	Human, Mouse Predicted Reactivity: Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	This CDIPT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 99-125 amino acids from the Central region of human CDIPT.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	99-125
Sequence Length	168
Applicable Applications for anti-CDIPT antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Catalyzes the biosynthesis of phosphatidylinositol (PtdIns) as well as PtdIns:inositol exchange reaction. May thus act to reduce an excessive cellular PtdIns content. The exchange activity is due to the reverse reaction of PtdIns synthase and is dependent on CMP, which is tightly bound to the enzyme.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein
Tissue Location	Detected in placenta (at protein level). Widely expressed. Higher expression in adult liver and skeletal muscle, slightly lower levels seen in pancreas, kidney, lung, placenta, brain, heart, leukocyte, colon, small intestine, ovary, testis, prostate, thymus and spleen. In fetus, expressed in kidney, liver, lung and brain.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
CDIPT Antibody (Center) flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with CDIPT Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of CDIPT Antibody (Center) in mouse stomach tissue lysates (35ug/lane). CDIPT (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-CDIPT antibody	CDIPT is a protein which is phosphatidylinositol breakdown products that are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, calcium metabolism, and protein kinase C activity. Two enzymes, CDP-diacylglycerol synthase and phosphatidylinositol synthase, are involved in the biosynthesis of phosphatidylinositol. Phosphatidylinositol synthase, a member of the CDP-alcohol phosphatidyl transferase class-I family, is an integral membrane protein found on the cytoplasmic side of the endoplasmic reticulum and the Golgi apparatus.
References	de Serres,F.J., et.al., Monaldi Arch Chest Dis 63 (3), 133-141 (2005) Lykidis,A., et.al., J. Biol. Chem. 272 (52), 33402-33409 (1997)

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453906
NCBI GeneID	10423
NCBI Accession #	NP_006310.1
NCBI GenBank Nucleotide #	NM_006319.4
UniProt Accession #	O14735; Q6FGU1; Q6ZN70; B4DUV0; H3BTV1
Molecular Weight	23539

NCBI Official Full Name	CDP-diacylglycerol--inositol 3-phosphatidyltransferase isoform 1
NCBI Official Synonym Full Names	CDP-diacylglycerol--inositol 3-phosphatidyltransferase
NCBI Official Symbol	CDIPT
NCBI Official Synonym Symbols	PIS; PIS1
NCBI Protein Information	CDP-diacylglycerol--inositol 3-phosphatidyltransferase
UniProt Protein Name	CDP-diacylglycerol--inositol 3-phosphatidyltransferase
UniProt Gene Name	CDIPT
UniProt Synonym Gene Names	PIS; PIS1; PI synthase; PtdIns synthase
UniProt Entry Name	CDIPT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cdipt-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/287291>