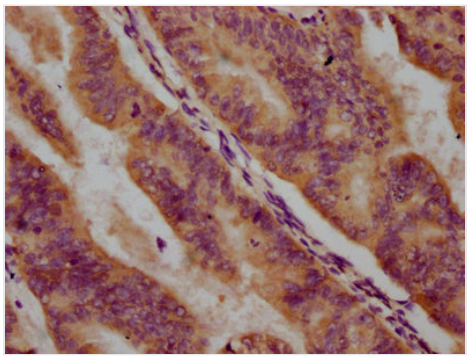
PPCDC Antibody – Rabbit Polyclonal

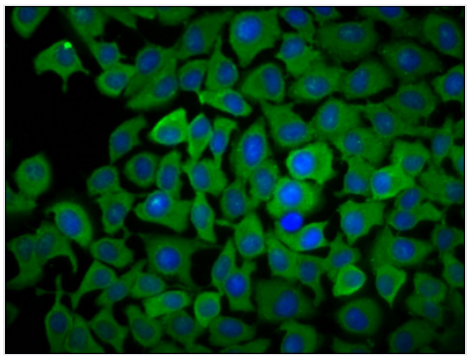
PRODUCT OVERVIEW

Product Name	PPCDC, Polyclonal Antibody
Full Product Name	PPCDC Antibody
Product Gene Name	anti-PPCDC antibody
Product Synonym Names	Phosphopantothenoylcysteine decarboxylase; PPC-DC; CoaC; PPCDC; COAC; MDS018; UNQ9365/PRO34154
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PPCDC (MBS7109971) HRP Conjugated Antibody: PPCDC (MBS7109972)
Matching Pairs	Unconjugated Antibody: PPCDC (MBS7109971) FITC Conjugated Antibody: PPCDC (MBS7109973)
Matching Pairs	Unconjugated Antibody: PPCDC (MBS7109971) Biotin Conjugated Antibody: PPCDC (MBS7109974)
Molecular Weight	14,069 Da
OMIM	AF182419 mRNA
3D Structure	ModBase 3D Structure for Q96CD2
Immunogen	Recombinant Human Phosphopantothenoylcysteine decarboxylase protein (51-183AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-PPCDC antibody	Cancer; Metabolism; Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PPCDC antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-PPCDC antibody	IHC: 1:500-1:1000 IF: 1:50-1:200
Related Product Information for anti-PPCDC antibody	Necessary for the biosynthesis of coenzyme A. Catalyzes the decarboxylation of 4-phosphopantothenoylcysteine to form 4'-phosphopantotheine.
Other Notes	Small volumes of anti-PPCDC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PPCDC purchase	MBS7109971 is an antibody targeting PPCDC. Also known as PPCDC Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-PPCDC antibody
IHC image of MBS7109971 diluted at 1:500 and staining in paraffin-embedded human endometrial cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunofluorescence (IF) of anti-PPCDC antibody
Immunofluorescence staining of A549 cells with MBS7109971 at 1:166, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C.The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG (H+L).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPCDC. It may not necessarily be applicable to this product.

NCBI GI #	666875837
NCBI GeneID	60490
NCBI Accession #	NP_001288030.1
UniProt Primary Accession #	Q96CD2
UniProt Secondary Accession #	Q96SX0; Q9HC17
UniProt Related Accession #	Q96CD2
GenBank Nucleotide #	NM_001301101.1
NCBI Official Full Name	phosphopantothenoylcysteine decarboxylase isoform b
NCBI Official Synonym Full Names	phosphopantothenoylcysteine decarboxylase
NCBI Official Symbol	PPCDC
NCBI Official Synonym Symbols	coaC; MDS018; PPC-DC
UniProt Protein Name	Phosphopantothenoylcysteine decarboxylase
UniProt Synonym Protein Names	CoaC
Protein Family	Putative phosphopantothenoylcysteine decarboxylase
UniProt Gene Name	PPCDC
UniProt Synonym Gene Names	COAC; PPC-DC
NCBI Protein Information	phosphopantothenoylcysteine decarboxylase
NCBI Summary for PPCDC	Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. PPCDC (EC 4.1.1.36), one of the last enzymes in this pathway, converts phosphopantothenoylcysteine to 4-prime-phosphopantetheine (Daugherty et al., 2002 [PubMed 11923312]).[supplied by OMIM, Mar 2008]

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