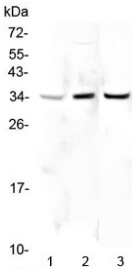
PPCS Antibody / Phosphopantothenoylcysteine synthetase (RQ4952)

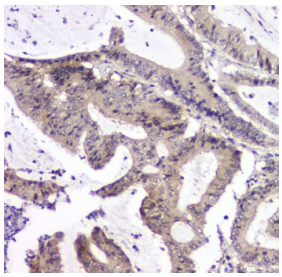
Catalog No.	Formulation	Size
RQ4952	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

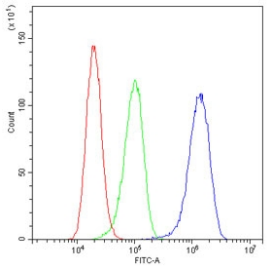
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9HAB8
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Flow cytometry: 1-3ug/10^6 cells Immunofluorescence/Immunocytochemistry: 2-4ug/ml
Limitations	This PPCS antibody is available for research use only.



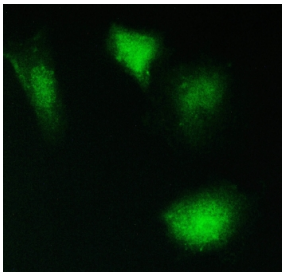
Western blot testing of human 1) HeLa, 2) placenta and 3) PC-3 lysate with PPCS antibody at 0.5ug/ml. Predicted molecular weight ~34 kDa.



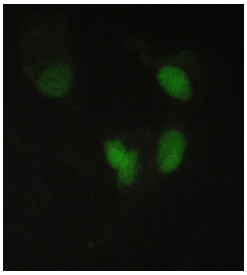
IHC staining of FFPE human intestinal cancer with PPCS antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



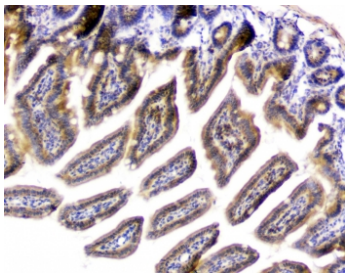
Flow cytometry testing of human A431 cells with PPCS antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PPCS antibody.



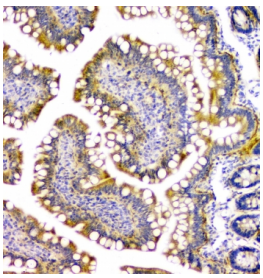
IF/ICC staining of FFPE human A549 cells with PPCS antibody (green) at 2ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



IF/ICC staining of FFPE human A431 cells with PPCS antibody (green) at 2ug/ml. HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE mouse small intestine with PPCS antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE rat small intestine with PPCS antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

Description

Phosphopantothenoylcysteine synthetase in humans is encoded by the PPCS gene. Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. PPCS, one of the last enzymes in this pathway, converts phosphopantothenate to phosphopantothenoylcysteine. By genomic sequence analysis, this PPCS gene ia mapped to chromosome 1.

Application Notes

Optimal dilution of the PPCS antibody should be determined by the researcher.

Immunogen

Amino acids VEIEEKIVDNLQSRHTAFIGDRN from the human protein were used as the immunogen for the PPCS antibody.

Storage

After reconstitution, the PPCS antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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