
Product Name: KD-Validated PCYT1A Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00727

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 41.7kDa

Antigen Information

Gene Name	PCYT1A PCYT1A; Phosphate Cytidylyltransferase 1A, Choline; CTPCT; CCTalpha; PCYT1; CT; Phosphate Cytidylyltransferase 1, Choline, Alpha; CTP:Phosphocholine Cytidylyltransferase-Alpha; Choline-Phosphate Cytidylyltransferase Alpha; CTP:Phosphocholine Cytidylyltransferase A; Choline-Phosphate Cytidylyltransferase A; Phosphorylcholine Transferase Alpha;
Alternative Names	Phosphorylcholine Transferase A; EC 2.7.7.15 4; CCT-Alpha; CCT A; CT A; Phosphate Cytidylyltransferase 1, Choline, Alpha Isoform; EC 2.7.7; SMDCRD; CCTA; CGL5;CTA
Gene ID	5130.0
SwissProt ID	P49585

Immunogen

A synthesized peptide derived from human CT A

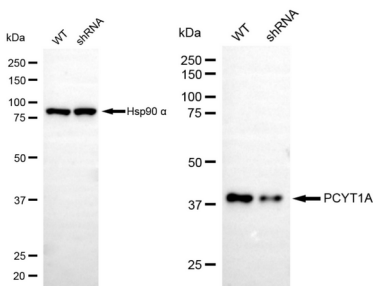
Background

This gene belongs to the cytidylyltransferase family and is involved in the regulation of phosphatidylcholine biosynthesis. Mutations in this gene are associated with spondylometaphyseal dysplasia with cone-rod dystrophy. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2015]

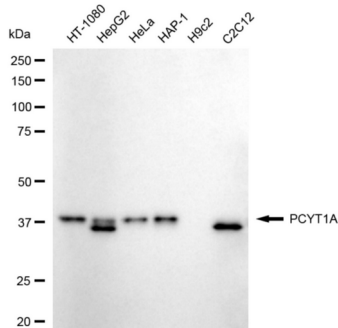
Research Area

Neuroscience, Signal Transduction, Metabolism

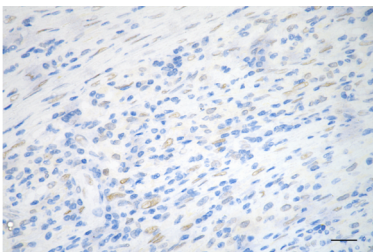
Image Data



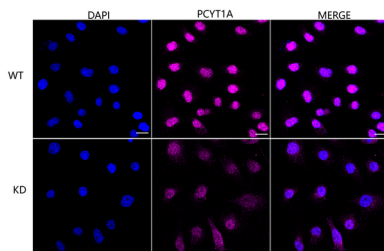
Western blotting analysis using PCYT1A antibody (KVA00727). PCYT1A expression in wild-type (WT) and PCYT1A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PCYT1A antibody (KVA00727, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



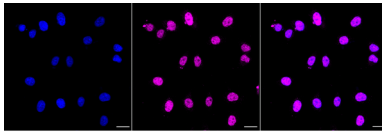
Western blotting analysis using PCYT1A antibody (KVA00727). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PCYT1A antibody (KVA00727, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



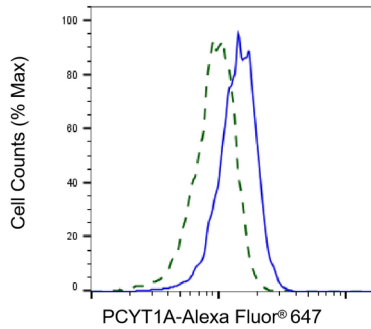
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using PCYT1A antibody (KVA00727, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



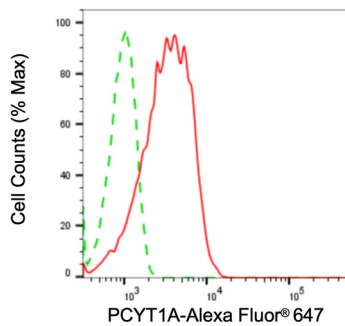
Immunocytochemical staining of HeLa cells using PCYT1A antibody (KVA00727, 1:1,000). Top panel: wild-type (WT); Bottom panel: PCYT1A shRNA knockdown (KD). Nuclei were stained blue with DAPI; PCYT1A was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with PCYT1A antibody(KVAb00727, 1:1,000) . Nuclei were stained blue with DAPI; PCYT1A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 μ m.



Validation of PCYT1A knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with PCYT1A antibody (KVAb00727, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of PCYT1A expression in HepG2 cells using PCYT1A antibody (KVAb00727, 1:2,000). Green, isotype control; red, PCYT1A.