

Product Name: KD-Validated AGPS Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01210**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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
Molecular Weight	Calculated MW: 72.9kDa

Antigen Information

Gene Name	AGPS
Alternative Names	AGPS; Alkylglycerone Phosphate Synthase; ALDHPSY; ADHAPS; ADAP-S; ADAS; ADPS; Alkyldihydroxyacetonephosphate Synthase, Peroxisomal; Aging-Associated Gene 5 Protein;
	Alkyl-DHAP Synthase; EC 2.5.1.26; Alkylglycerone-Phosphate Synthase; Aging-Associated Protein 5; RCDP3
Gene ID	8540.0
SwissProt ID	O00116
Immunogen	Recombinant protein of human Alkyl-DHAP synthase

Background

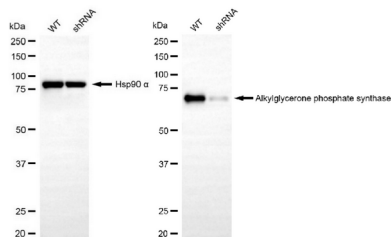
This gene is a member of the FAD-binding oxidoreductase/transferase type 4 family. It encodes a protein that catalyzes the

second step of ether lipid biosynthesis in which acyl-dihydroxyacetonephosphate (DHAP) is converted to alkyl-DHAP by the addition of a long chain alcohol and the removal of a long-chain acid anion. The protein is localized to the inner aspect of the peroxisomal membrane and requires FAD as a cofactor. Mutations in this gene have been associated with rhizomelic chondrodysplasia punctata, type 3 and Zellweger syndrome. [provided by RefSeq, Jul 2008]

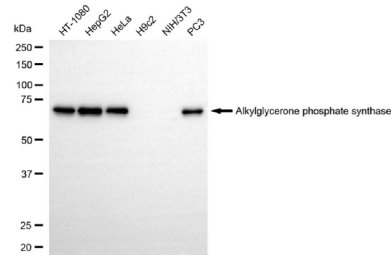
Research Area

Neuroscience

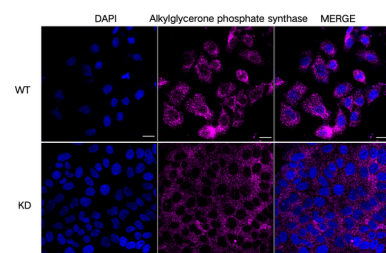
Image Data



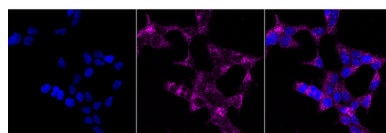
Western blotting analysis using alkylglycerone phosphate synthase antibody (KVA01210). Alkylglycerone phosphate synthase expression in wild-type (WT) and alkylglycerone phosphate synthase (AGPS) shRNA knockdown (KD) HepG2 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with alkylglycerone phosphate synthase antibody (KVA01210, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



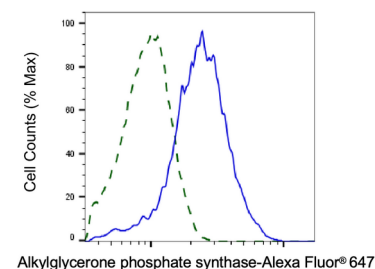
Western blotting analysis using alkylglycerone phosphate synthase antibody (KVA01210). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with alkylglycerone phosphate synthase antibody (KVA01210, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



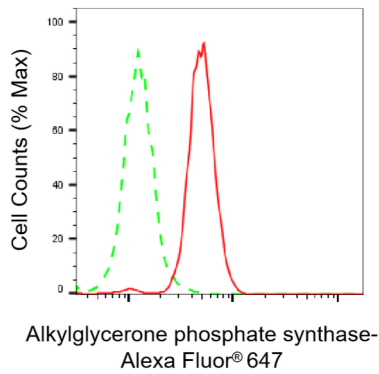
Immunocytochemical staining of HepG2 cells using Alkylglycerone phosphate synthase antibody (KVA01210, 1:1,000). Top panel: wild-type (WT); Bottom panel: Alkylglycerone phosphate synthase shRNA knockdown (KD). Nuclei were stained blue with DAPI; Alkylglycerone phosphate synthase was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HeLa cells with Alkylglycerone phosphate synthase antibody (KVA01210, 1:1,000). Nuclei were stained blue with DAPI; Alkylglycerone phosphate synthase 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 µm.



Validation of Alkylglycerone phosphate synthase knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HepG2 cells were stained with Alkylglycerone phosphate synthase antibody (KVA01210, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Alkylglycerone phosphate synthase expression in HeLa cells using Alkylglycerone phosphate synthase antibody (KVA01210, 1:2,000). Green, isotype control; red, Alkylglycerone phosphate synthase.