

[KD Validated] Anti-AGPS Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

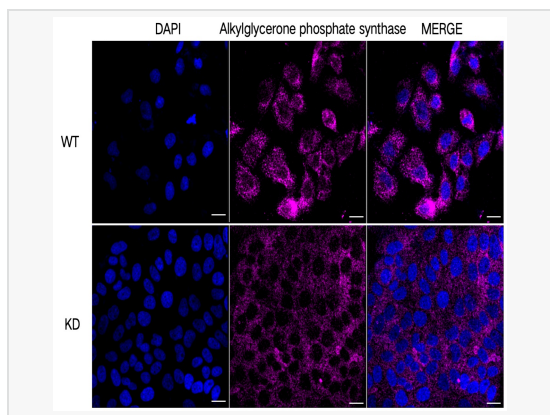
Catalog # R021284

Product Information

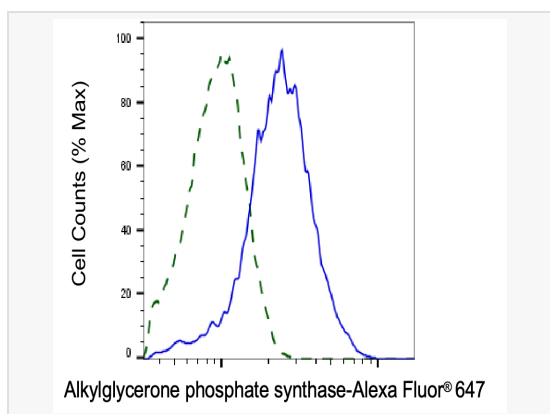
Application	WB, FC, IF (Cell)/ICC
Reactivity	Human
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	61Q68H44
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human Alkyl-DHAP synthase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-AGPS Rabbit mAb [61Q68H44] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

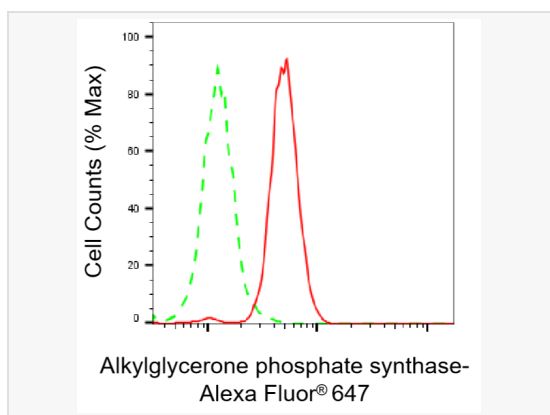
Synonyms	AGPS; Alkylglycerone Phosphate Synthase; ALDHPSY; ADHAPS; ADAP-S; ADAS; ADPS; Alkyl-dihydroxyacetonephosphate Synthase, Peroxisomal; Aging-Associated Gene 5 Protein; Alkyl-DHAP Synthase; EC 2.5.1.26; Alkylglycerone-Phosphate Synthase; Aging-Associated Protein 5; RCDP3.
Calculated MW	Calculated MW: 73 kDa, Observed MW: 73 kDa
Uniprot ID	O00116
Gene ID	8540
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]
Cellular Location	Peroxisome membrane.Peroxisome.



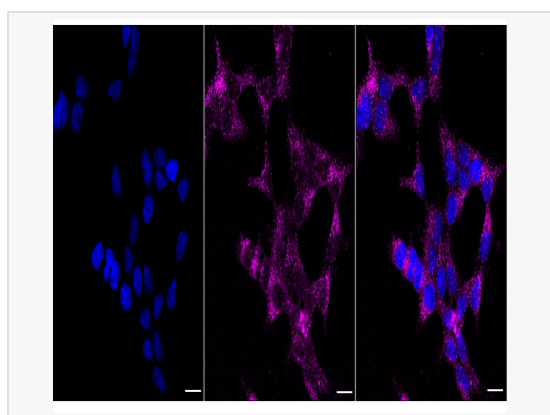
Immunocytochemical staining of HepG2 cells using Alkylglycerone phosphate synthase antibody (R021284, 1:1,000), Top panel: wild-type (WT); Bottom panel: Alkylglycerone phosphate synthase shRNA knockdown (KD). Nuclei were stained blue with DAPI; Alkylglycerone phosphate synthase was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



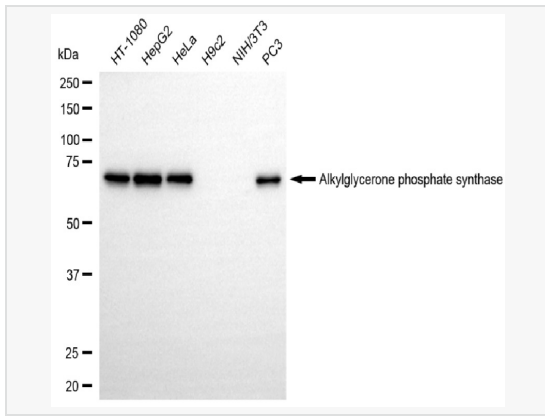
Validation of Alkylglycerone phosphate synthase knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HepG2 cells were stained with Alkylglycerone phosphate synthase antibody (R021284, 1:2,000) and analyzed using BD flow cytometer.



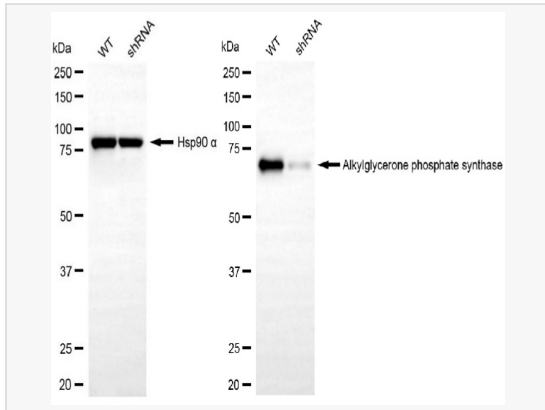
Flow cytometric analysis of Alkylglycerone phosphate synthase expression in HeLa cells using Alkylglycerone phosphate synthase antibody (R021284, 1:2,000). Green, isotype control; red, Alkylglycerone phosphate synthase.



Immunocytochemical staining of HeLa cells with Alkylglycerone phosphate synthase antibody (R021284, 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.



Western blotting analysis using alkylglycerone phosphate synthase antibody (R021284). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with alkylglycerone phosphate synthase antibody (R021284, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using alkylglycerone phosphate synthase antibody (R021284). Alkylglycerone phosphate synthase expression in wild-type (WT) and alkylglycerone phosphate synthase (AGPS) shRNA knockdown (KD) HepG2 cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with alkylglycerone phosphate synthase antibody (R021284, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.