Datasheet for ABIN2749041

anti-AGPS antibody (AA 158-384)

4 Images

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Overview

Quantity:	0.1 mg
Target:	AGPS
Binding Specificity:	AA 158-384
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AGPS antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	recombinant human AGPS (amino acids 158-384)
Clone:	AGPS-03
Isotype:	IgG2a
Specificity:	The mouse monoclonal antibody AGPS-03 recognizes AGPS (alkykglycerone phosphate synthase), an intracellular peroxisomal enzyme important for lipid biosynthesis.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

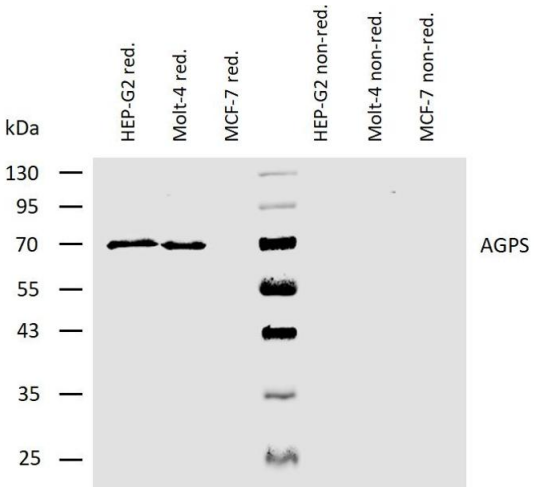
Target:	AGPS
Alternative Name:	AGPS (AGPS Products)
Background:	Alkylglycerone phosphate synthase,AGPS (alkylglycerone phosphate synthase), is an enzyme that catalyzes the second step of ether lipid biosynthesis in which acyl-dihydroxyacetone phosphate (acyl-DHAP) is converted to alkyl-DHAP by addition of a long chain alcohol and removal of a long-chain acid anion. The protein is localized to the inner side of the peroxisomal membrane and requires FAD as a cofactor. Mutations in AGPS gene have been associated with type 3 of rhizomelic chondrodysplasia punctata (RCDP3), and Zellweger syndrome. Higher expression of AGPS was observed in BCR/ABL positive leukemias and it was also described to be associated with higher risk of relapse.,ADAS, ADPS, RCDP3, ADAP-S, ADHAPS, ALDHPSY
Gene ID:	8540
UniProt:	O00116
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining. Western blotting: Recommended dilution: 1-2 µg/mL.
Restrictions:	For Research Use only

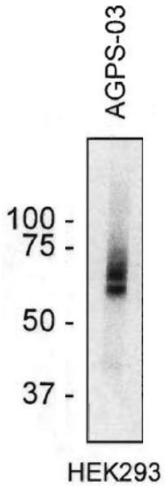
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



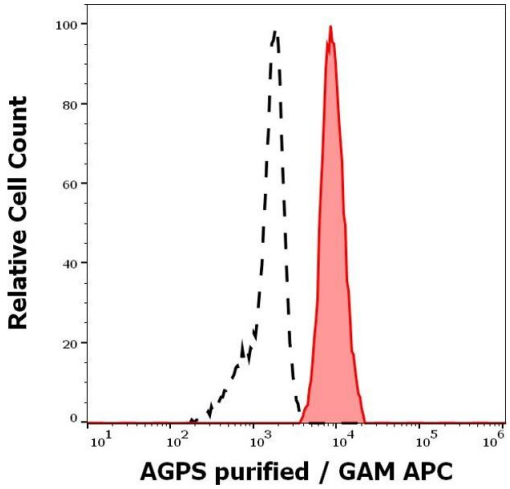
Western Blotting

Image 1. Western blotting analysis of human AGPS using mouse monoclonal antibody AGPS-03 on lysates of HEP-G2 and Molt-4 cells, and MCF-7 cells (negative control) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse anti-AGPS monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. AGPS was detected at approximately 70 kDa.



Western Blotting

Image 2. Western blotting analysis of AGPS in HEK293 cell lysate using monoclonal antibody AGPS-03 .



Flow Cytometry

Image 3. Separation of K562 cells (red-filled) from human leukocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood spiked with K562 cells stained using anti-AGPS (AGPS-03) purified antibody (concentration in sample 5 µg/mL, GAM APC).

Please check the product details page for more images. Overall 4 images are available for ABIN2749041.