

30-1533: Anti-AGPS Monoclonal Antibody (Clone: AGPS-03) Purified

Clonality :	Monoclonal
Clone Name :	AGPS-03
Application :	FACS,WB
Reactivity :	Human
Gene :	AGPS
Gene ID :	8540
Uniprot ID :	O00116
Format :	Purified
Alternative Name :	AGPS,AAG5
Isotype :	Mouse IgG2a
Immunogen Information :	recombinant human AGPS (amino acids 158-384)

Description

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.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1-4 µg/ml. Intracellular staining.
Western blotting: Recommended dilution: 1-2 µg/ml.

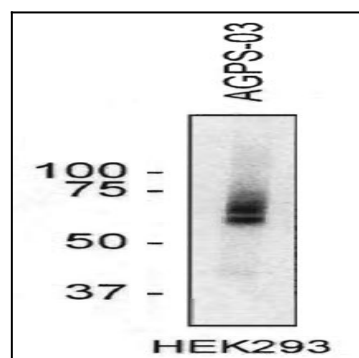


Figure 1: Western blotting analysis of AGPS in HEK293 cell lysate using monoclonal antibody AGPS-03.

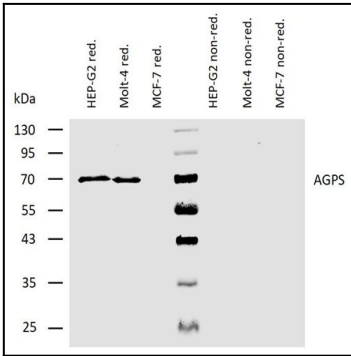


Figure 2: Western blotting analysis of human AGPS using mouse monoclonal antibody AGPS-03 on lysates of HEP-G2 and Molt-4 cells, and MCF-7 cells (negative control) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse anti-AGPS monoclonal antibody followed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

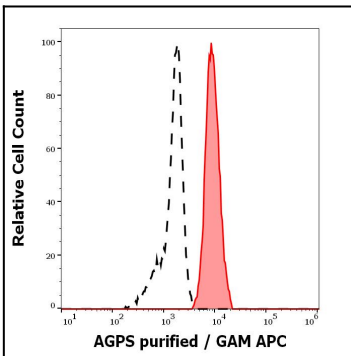


Figure 3: Separation of K562 cells (red-filled) from human leukocytes (black-dashed) in flow cytometry analysis (intracellular staining) of human peripheral whole blood spiked with K562 cells stained using anti-AGPS (AGPS-03) purified antibody (GAM APC).

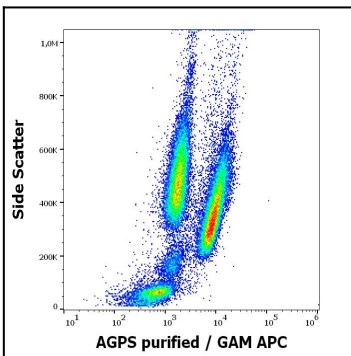


Figure 4: Flow cytometry intracellular staining pattern of human peripheral whole blood spiked with K562 cells stained using anti-AGPS (AGPS-03) purified antibody (GAM APC).