TECHNICAL DATA SHEET

CyFlow™ AGPS Purified
Anti-Hu; Clone AGPS-03

REF **CU923196**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	AGPS
Alternative Names	—
Clone	AGPS-03
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Recombinant human AGPS (amino acids 158-384)

Specificity

The mouse monoclonal antibody AGPS-03 recognizes AGPS (alkykglycerone phosphate synthase) antigen, an peroxisomal enzyme important for lipid biosynthesis.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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.

References

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- Grimm MO, Kuchenbecker J, Rothhaar TL, Grösgen S, Hundsdörfer B, Burg VK, Friess P, Müller U, Grimm HS, Riemenschneider M, Hartmann T: Plasmalogen synthesis is regulated via alkyl-dihydroxyacetonephosphate-synthase by amyloid precursor protein processing and is affected in Alzheimer'sdisease. J Neurochem. 2011 Mar; 116(5):916-25. < PMID: 21214572 >
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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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