

### 30-1533AC: APC Conjugated Anti-AGPS Monoclonal Antibody (Clone: AGPS-03)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal                                   |
| <b>Clone Name :</b>            | AGPS-03                                      |
| <b>Application :</b>           | FACS   |
| <b>Reactivity :</b>            | Human  |
| <b>Conjugate :</b>             | APC  |
| <b>Gene :</b>                  | AGPS   |
| <b>Gene ID :</b>               | 8540   |
| <b>Uniprot ID :</b>            | O00116                                       |
| <b>Format :</b>                | Purified                                     |
| <b>Alternative Name :</b>      | AGPS,AAG5                                    |
| <b>Isotype :</b>               | Mouse IgG2a                                  |
| <b>Immunogen Information :</b> | 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

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 0.1 mg  |
| <b>Purification :</b>      | Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |
| <b>Content :</b>           | 0.1 mg/ml Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide   |
| <b>Storage condition :</b> | Store at 2-8°C protected from light. Do not freeze.   |

#### Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Intracellular staining.

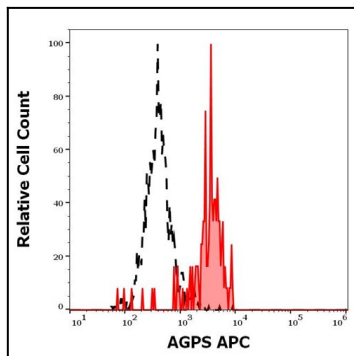


Figure 1: Separation of A431 cells stained using anti-AGPS (MHD4-46) APC antibody (10  $\mu$ l reagent per million cells in 100  $\mu$ l of cell suspension, red-filled) from A431 cells stained using mouse IgG2a isotype control (MOPC-173) APC antibody (concentration in sample 5  $\mu$ g/ml, same as AGPS APC antibody concentration, black-dashed) in flow cytometry analysis (intracellular staining).