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Datasheet for ABIN1696022

anti-AGPS antibody (AA 31-130) (AbBy Fluor® 488)

Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | AGPS |
| Binding Specificity: | AA 31-130 |
| Reactivity: | Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This AGPS antibody is conjugated to AbBy Fluor® 488 |
| Application: | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

Product Details

| | |
|-----------------------|--|
| Immunogen: | KLH conjugated synthetic peptide derived from human AGPS/Alkyl-DHAP synthase |
| Isotype: | IgG |
| Cross-Reactivity: | Rat |
| Predicted Reactivity: | Human,Mouse,Cow,Pig,Horse |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|--|
| Target: | AGPS |
| Alternative Name: | AGPS/Alkyl-DHAP synthase (AGPS Products) |

Target Details

Background: Synonyms: AAG5, ADAP-S, ADAS, ADAS_HUMAN, ADHAPS, ADPS, Aging associated gene 5 protein, Aging-associated gene 5 protein, AGPS, ALDHPSY, Alkyl-DHAP synthase, Alkyldihydroxyacetonephosphate synthase, Alkyldihydroxyacetonephosphate synthase, peroxisomal, Alkylglycerone phosphate synthase, Alkylglycerone-phosphate synthase, peroxisomal.

Background: AGPS is a 658 amino acid enzyme that is required for glycerolipid metabolism and ether lipid biosynthesis. Localized to the inner aspect of the peroxisomal membrane, AGPS is likely part of a heterotrimeric complex that is also composed of GNPAT and a modified form of GNPAT. Containing one FAD-binding PCMH-type domain, AGPS utilizes FAD as a cofactor in the synthesis of alkyl-glycerone 3-phosphate and a long-chain acid anion from 1-acteyl-glycerone 3-phosphate and a long-chain alcohol. Defects in the gene encoding AGPS results in rhizomelic chondrodysplasia punctata type 3, a disease characterized by vertebral disorders, severe mental retardation, cutaneous lesions, cataracts and rhizomelic shortening of the humerus and femur.

Gene ID: 8540

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Handling

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months