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AGPS Rabbit pAb

Catalog # AP99733

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00116
Other Accession	O00116
Reactivity	Rat
Predicted	Pig, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72912
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human AGPS/Alkyl-DHAP synthase
Epitope Specificity	31-130/658
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the FAD-binding oxidoreductase/transferase type 4 family. Contains 1 FAD-binding PCMH-type domain.
SUBUNIT	Homodimer.
DISEASE	Defects in AGPS are the cause of rhizomelic chondrodysplasia punctata type 3 (RCDP3) [MIM:600121]. RCDP3 is characterized by rhizomelic shortening of femur and humerus, vertebral disorders, cataract, cutaneous lesions and severe mental retardation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the FAD-binding oxidoreductase/transferase type 4 family. It encodes a protein that catalyzes the second step of ether lipid biosynthesis in which acyl-dihydroxyacetonephosphate (DHAP) is converted to alkyl-DHAP by the addition of a long chain alcohol and the removal of a long-chain acid anion. The protein is localized to the inner aspect of the peroxisomal membrane and requires FAD as a cofactor. Mutations in this gene have been associated with rhizomelic chondrodysplasia punctata, type 3 and Zellweger syndrome. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8540
Other Names	ADAP-S; ADAS; ADHAPS; ADPS; ALDHPSY; RCDP3; 5832437L22; 9930035G10Rik; Adaps; bs2; Ads; ADAS_HUMAN; AGPS; Alkyl-DHAP synthase; Aging-associated gene 5 protein; Alkylglycerone-phosphate synthase; 2.5.1.26; ADAS_MOUSE; ADAS_RAT; alkylglycerone phosphate synthase; Alkyldihydroxyacetonephosphate synthase, peroxisomal

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	AGPS
Function	Catalyzes the exchange of the acyl chain in acyl-dihydroxyacetonephosphate (acyl-DHAP) for a long chain fatty alcohol, yielding the first ether linked intermediate, i.e. alkyl-dihydroxyacetonephosphate (alkyl-DHAP), in the pathway of ether lipid biosynthesis.
Cellular Location	Peroxisome membrane {ECO:0000250|UniProtKB:P97275}. Peroxisome {ECO:0000250|UniProtKB:P97275}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.