

## Product datasheet for **TA321589**

### Alkyl DHAP synthase (AGPS) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: 231 and 293T cell IHC: 50-200 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 300 amino acids of human alkylglycerone phosphate synthase
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	alkylglycerone phosphate synthase
Database Link:	<a href="#">NP_003650</a> <a href="#">Entrez Gene 84114 Rat</a> <a href="#">Entrez Gene 228061 Mouse</a> <a href="#">Entrez Gene 8540 Human</a> <a href="#">O00116</a>



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**Background:**

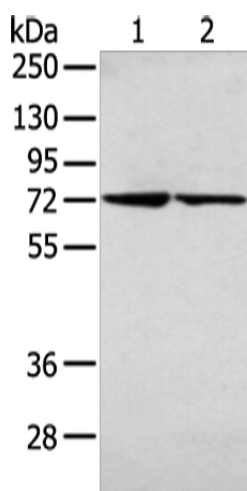
This gene is a member of the FAD-binding oxidoreductase/transferase type 4 family. It encodes a protein that catalyzes the second step of ether lipid biosynthesis in which acyl-dihydroxyacetonephosphate (DHAP) is converted to alkyl-DHAP by the addition of a long chain alcohol and the removal of a long-chain 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.

**Synonyms:**

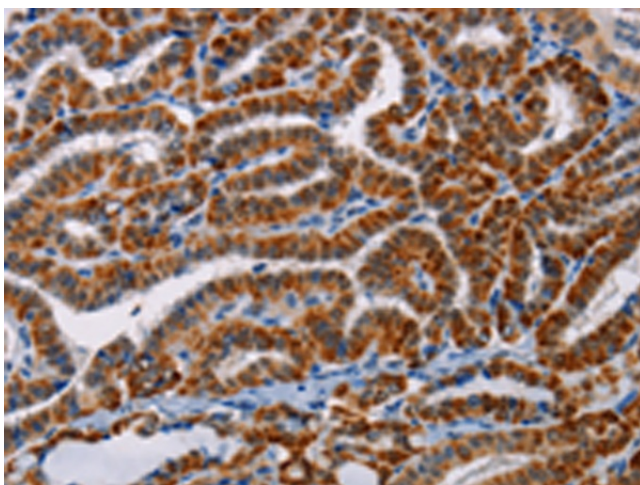
ADAP-S; ADAS; ADHAPS; ADPS; ALDHPSY; RCDP3

**Protein Pathways:**

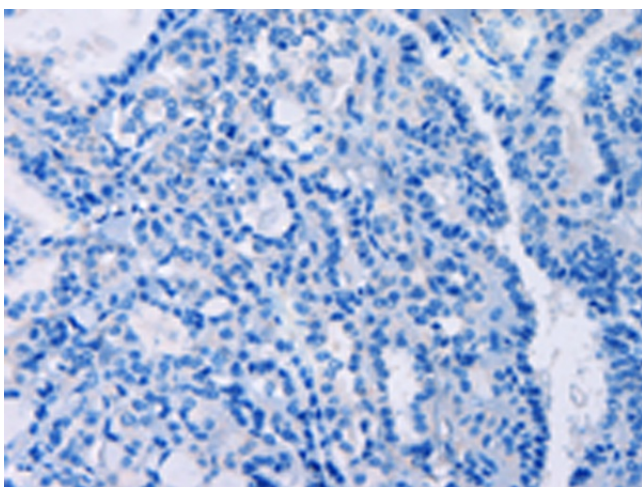
Ether lipid metabolism, Metabolic pathways

**Product images:**

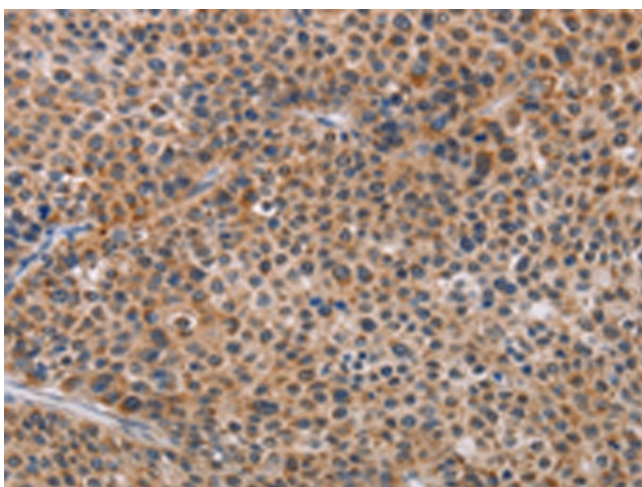
Gel: 8%SDS-PAGE  
Lysate: 40 µg  
Lane 1-2: 231 and 293T cell  
Primary antibody: TA321589 (AGPS Antibody) at dilution 1/200  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 5 seconds



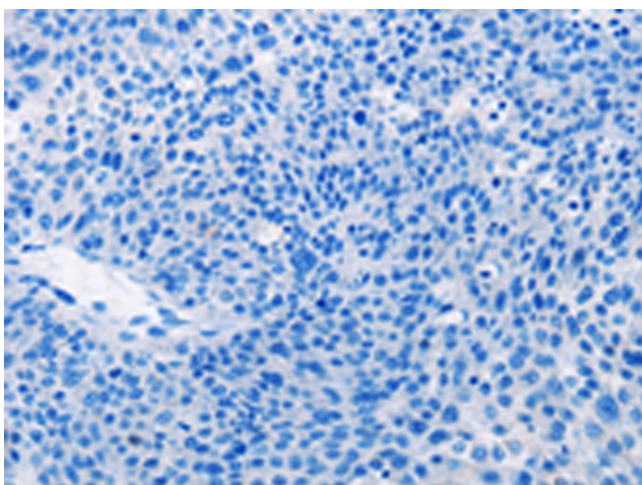
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA321589 (AGPS Antibody) at dilution 1/25 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA321589 (AGPS Antibody) at dilution 1/25, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321589 (AGPS Antibody) at dilution 1/25 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321589 (AGPS Antibody) at dilution 1/25, treated with fusion protein. (Original magnification:  $\times 200$ )