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# Anti-DHAPAT Antibody

Catalog # AP60298

## Product Information

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|---|---|
| **Application** | WB, IHC, IF/IC |
| **Primary Accession** | O15228 |
| **Reactivity** | Human, Mouse, Rat, Pig |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 77188 |

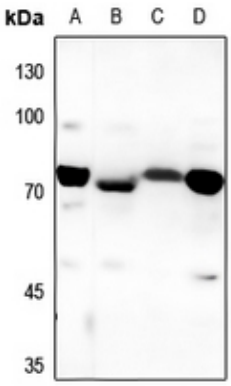
## Additional Information

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|---|---|
| **Gene ID** | 8443 |
| **Other Names** | DAPAT; DHAPAT; DIHCydroxyacetone phosphate acyltransferase; DAP-AT; DHAP-AT; Acyl-CoA:dIHCydroxyacetonephosphateacyltransferase; Glycerone-phosphate O-acyltransferase |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DHAPAT. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

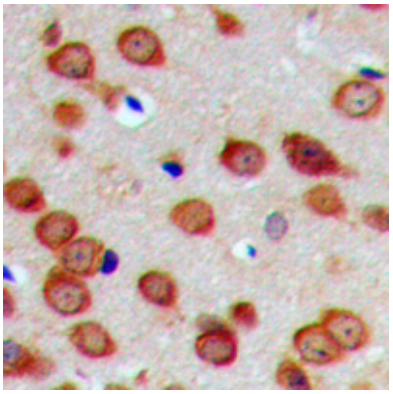
## Protein Information

| | |
|---|---|
| **Name** | GNPAT ( HGNC:4416) |
| **Function** | Dihydroxyacetonephosphate acyltransferase catalyzing the first step in the biosynthesis of plasmalogens, a subset of phospholipids that differ from other glycerolipids by having an alkyl chain attached through a vinyl ether linkage at the sn-1 position of the glycerol backbone, and which unique physical properties have an impact on various aspects of cell signaling and membrane biology. |
| **Cellular Location** | Peroxisome membrane; Peripheral membrane protein {ECO:0000250\|UniProtKB:Q9ES71}; Matrix side {ECO:0000250\|UniProtKB:Q9ES71}. Note=Exclusively localized to the lumenal side of the peroxisomal membrane {ECO:0000250\|UniProtKB:Q9ES71} |

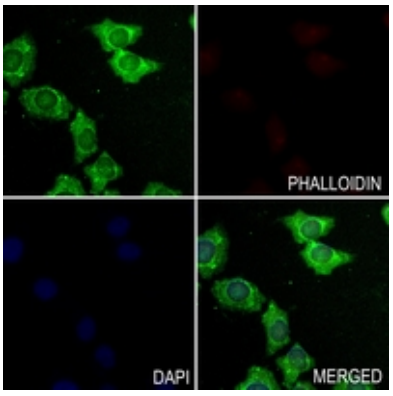
## Images



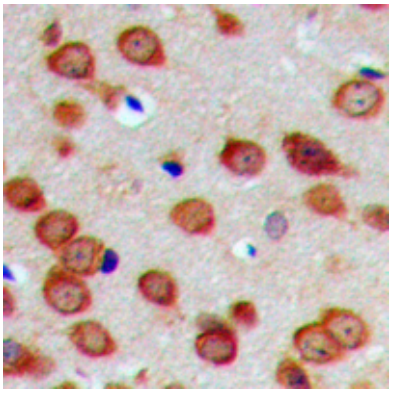

Western blot analysis of DHAPAT expression in Hela (A), mouse heart (B), rat muscle (C), rat heart (D) whole cell lysates. (Predicted band size: 77 kD; Observed band size: 77 kD)



Immunohistochemical analysis of DHAPAT staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.




Immunofluorescent analysis of DHAPAT staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemical analysis of DHAPAT staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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