

## Product datasheet for **AP21160PU-S**

### DHPS Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | WB  |
| Recommended Dilution:   | <b>Western blot:</b> 1/500 - 1/1000.  |
| Reactivity:             | Human   |
| Host:                   | Rabbit  |
| Clonality:              | Polyclonal  |
| Specificity:            | This antibody detects endogenous levels of DHS protein.<br>(region surrounding Leu87)   |
| Formulation:            | Phosphate buffered saline (PBS), pH 7.2.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>Preservative: 0.05% sodium azide |
| Concentration:          | 1.0 mg/ml   |
| Purification:           | Affinity chromatography (> 95% (by SDS-PAGE)  |
| Conjugation:            | Unconjugated  |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.                        |
| Stability:              | Shelf life: one year from despatch.   |
| Predicted Protein Size: | ~ 45 kDa  |
| Gene Name:              | deoxyhypusine synthase  |
| Database Link:          | <a href="#">Entrez Gene 1725 Human P49366</a>   |



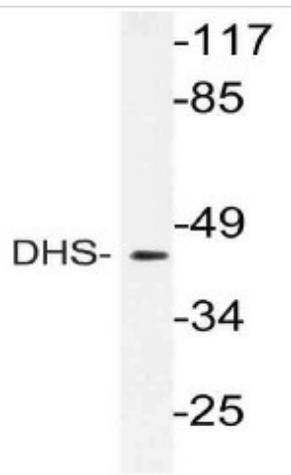
[View online »](#)

**Background:**

Deoxyhypusine synthase (DHS) is crucial for the posttranslational formation of hypusine, a modification of a specific lysine residue in eukaryotic initiation factor 5A (eIF-5A). Hypusine is formed by posttranslational modifications involving two enzymatic steps catalyzed by DHS and deoxyhypusine hydroxylase (DOHH). eIF-5A is essential for eukaryotic cell proliferation. DHS, which belongs to the deoxyhypusine synthase family of proteins, is important for the first step in the hypusine biosynthesis pathway. It acts as a catalyst for the NAD-dependent oxidative cleavage of spermidine and the ensuing transfer of the butylamine moiety of spermidine to the eIF-5A protein, to create the intermediate deoxyhypusine residue.

**Synonyms:**

DHS; DS; MIG13

**Product images:**

Western blot (WB) analysis of DHS antibody (Cat.-No.: [AP21160PU-N]) in extracts from 3T3 cells.