

**DEGS1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58122****Specification****DEGS1 Polyclonal Antibody - Product Information**

|                                  |                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Application                      | WB, IHC-P, IHC-F, IF, E                                                                                                                  |
| Primary Accession                | <a href="#">O15121</a>                                                                                                                   |
| Reactivity                       | Rat, Pig, Bovine                                                                                                                         |
| Host                             | Rabbit                                                                                                                                   |
| Clonality                        | Polyclonal                                                                                                                               |
| Calculated MW                    | 35 KDa                                                                                                                                   |
| Physical State                   | Liquid                                                                                                                                   |
| Immunogen                        | KLH conjugated synthetic peptide derived from human DEGS1                                                                                |
| Epitope Specificity              | 21-120/323                                                                                                                               |
| Isotype                          | IgG                                                                                                                                      |
| <b>Purity</b>                    |                                                                                                                                          |
| affinity purified by Protein A   |                                                                                                                                          |
| Buffer                           | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                        |
| SUBCELLULAR LOCATION             | Mitochondrion. Endoplasmic reticulum membrane; Multi-pass membrane protein. Belongs to the fatty acid desaturase family. DEGS subfamily. |
| SIMILARITY                       | Myristoylation can target the enzyme to the mitochondria leading to an increase in ceramide levels.                                      |
| Post-translational modifications | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                |
| Important Note                   |                                                                                                                                          |

**Background Descriptions**

DEGS1 is a member of the membrane fatty acid desaturase family which is responsible for inserting double bonds into specific positions in fatty acids. It contains three His containing consensus motifs that are characteristic of a group of membrane fatty acid desaturases. It has sphingolipid-delta-4-desaturase activity and converts D-erythro-sphinganine to D-erythro-sphingosine (E-sphing-4-enine).

**DEGS1 Polyclonal Antibody - Additional Information****Gene ID** 8560**Other Names**

Sphingolipid delta(4)-desaturase DES1, 1.14.19.17, Cell migration-inducing gene 15 protein, Degenerative spermatocyte homolog 1, Dihydroceramide desaturase-1, Membrane lipid desaturase, DEGS1 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=13709](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=13709) target="\_blank">HGNC:13709</a>), DES1, MLD

**Target/Specificity**

Ubiquitous.

**Dilution**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**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.

**DEGS1 Polyclonal Antibody - Protein Information**

**Name** DEGS1 ([HGNC:13709](#))

**Synonyms** DES1, MLD

**Function**

Has sphingolipid-delta-4-desaturase activity. Converts D- erythro-sphinganine to D-erythro-sphingosine (E-sphing-4-ene) (PubMed:<a href="http://www.uniprot.org/citations/11937514" target="\_blank">11937514</a>, PubMed:<a href="http://www.uniprot.org/citations/30620337" target="\_blank">30620337</a>, PubMed:<a href="http://www.uniprot.org/citations/30620338" target="\_blank">30620338</a>). Catalyzes the equilibrium isomerization of retinols (By similarity).

**Cellular Location**

Mitochondrion membrane. Endoplasmic reticulum membrane; Multi-pass membrane protein

**Tissue Location**

Ubiquitous..

**DEGS1 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DEGS1 Polyclonal Antibody - Images**