

**KD-Validated Anti-MLD Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1575**

**Specification**

**KD-Validated Anti-MLD Rabbit Monoclonal Antibody - Product Information**

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB, FC, ICC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Primary Accession | <a href="#">O15121</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reactivity        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clonality         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype           | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Calculated MW     | Predicted, 38 kDa , observed, 34 kDa KDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Name         | DEGS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Aliases           | DEGS1; Delta 4-Desaturase, Sphingolipid 1; DES1; MLD; DEGS-1; FADS7; Cell Migration-Inducing Gene 15 Protein; Sphingolipid Delta(4)-Desaturase DES1; Sphingolipid Delta(4)-Desaturase 1; Dihydroceramide Desaturase 1; Membrane Lipid Desaturase; Retinol Isomerase; Des-1; Degenerative Spermatocyte Homolog 1, Lipid Desaturase (Drosophila); Degenerative Spermatocyte Homolog 1, Lipid Desaturase; Degenerative Spermatocyte Homolog, Lipid Desaturase; Membrane Fatty Acid (Lipid) Desaturase; Degenerative Spermatocyte Homolog 1; Migration-Inducing Gene 15 Protein; Sphingolipid Delta 4 Desaturase; Dihydroceramide Desaturase-1; EC 1.14.19.17; EC 5.2.1.-; HLD18; MIG15; DES-1; DEGS |
| Immunogen         | A synthesized peptide derived from human MLD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**KD-Validated Anti-MLD Rabbit Monoclonal Antibody - Additional Information**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 8560                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Other Names</b> | 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, Retinol isomerase, 5.2.1.-, DEGS1 ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=13709" target="_blank">http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=13709</a> ), DES1, MLD |

**KD-Validated Anti-MLD Rabbit Monoclonal 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-enine) (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**

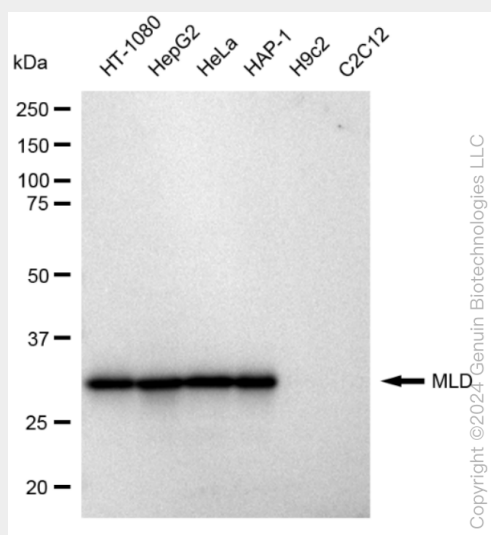
Ubiquitous..

**KD-Validated Anti-MLD Rabbit Monoclonal 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](#)

**KD-Validated Anti-MLD Rabbit Monoclonal Antibody - Images**



Western blotting analysis using anti-MLD antibody (Cat#AGI1575). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MLD antibody (Cat#AGI1575, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

