Product Name: KD-Validated MLD Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01025
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 37.9kDa

Antigen Information

Gene Name	DEGS1
Alternative Names	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
Gene ID	8560.0

SwissProt ID	O15121
Immunogen	A synthesized peptide derived from human MLD

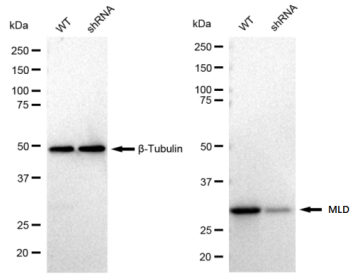
Background

This gene encodes a member of the membrane fatty acid desaturase family which is responsible for inserting double bonds into specific positions in fatty acids. This protein contains three His-containing consensus motifs that are characteristic of a group of membrane fatty acid desaturases. It is predicted to be a multiple membrane-spanning protein localized to the endoplasmic reticulum. Overexpression of this gene inhibited biosynthesis of the EGF receptor, suggesting a possible role of a fatty acid desaturase in regulating biosynthetic processing of the EGF receptor. [provided by RefSeq, Mar 2010]

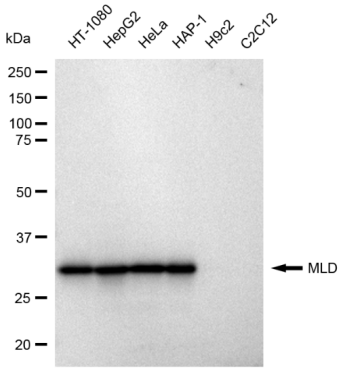
Research Area

Cardiovascular,Cancer,Metabolism

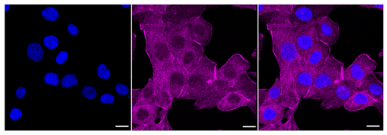
Image Data



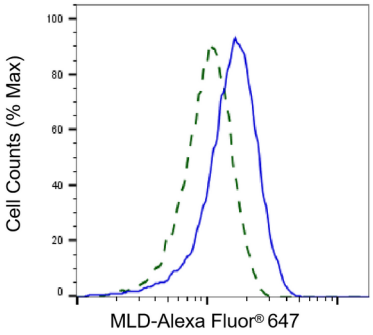
Western blotting analysis using MLD antibody (KVAb01025). MLD expression in wild type (WT) and MLD shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with MLD antibody (KVAb01025, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



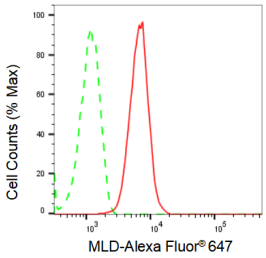
Western blotting analysis using MLD antibody (KVAb01025). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MLD antibody (KVAb01025, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with MLD antibody (KVAb01025, 1:1,000). Nuclei were stained blue with DAPI; MLD was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of MLD knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HT-1080 cells were stained with MLD antibody (KVAb01025, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of MLD expression in HepG2 cells using MLD antibody (KVAb01025, 1:2,000). Green, isotype control; red, MLD.