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DEGS1 Rabbit pAb

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Catalog # AP58122

Product Information

Application	WB
Primary Accession	O15121
Reactivity	Rat, Pig, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37866
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DEGS1
Epitope Specificity	21-120/323
Isotype	IgG
Purity	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.
SIMILARITY	Belongs to the fatty acid desaturase family. DEGS subfamily.
Post-translational modifications	Myristoylation can target the enzyme to the mitochondria leading to an increase in ceramide levels.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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).

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, Retinol isomerase, 5.2.1.-, DEGS1 (HGNC:13709), DES1, MLD
Target/Specificity	Ubiquitous.
Dilution	WB=1:500-2000
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.

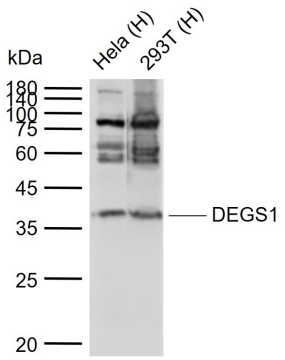
Protein Information

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:11937514, PubMed:30620337, PubMed:30620338). Catalyzes the equilibrium isomerization of retinols (By similarity).
Cellular Location	Mitochondrion membrane. Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Ubiquitous..

Background

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).

Images



Sample:
Lane 1: Human Hela cell lysates
Lane 2: Human 293T cell lysates
Primary: Anti-DEGS1 (AP58122) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 35 kDa
Observed band size: 38 kDa