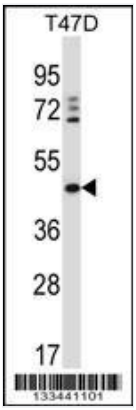
DEGS1 Antibody – Rabbit Polyclonal

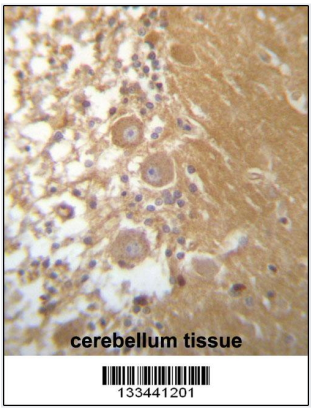
PRODUCT OVERVIEW

Product Name	DEGS1, Polyclonal Antibody
Full Product Name	DEGS1, NT (DEGS1, DES1, MLD, Sphingolipid delta(4)-desaturase DES1, Cell migration-inducing gene 15 protein, Degenerative spermatocyte homolog 1, Membrane lipid desaturase) (Azide free) (HRP)
Product Gene Name	anti-DEGS1 antibody
Product Synonym Names	DEGS1; DES1; MLD; Sphingolipid delta(4)-desaturase DES1; Cell migration-inducing gene 15 protein; Degenerative spermatocyte homolog 1; Membrane lipid desaturase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	37866
Chromosome Location	Chromosome: 1; NC_000001.10 (224370910..224381143). Location: 1q42.11
3D Structure	ModBase 3D Structure for O15121
Immunogen	DEGS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DEGS1.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-DEGS1 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-DEGS1 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-DEGS1 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-DEGS1 antibody	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.

Product References and Citations for anti-DEGS1 antibody	Idkowiak-Baldys, J., et al. Biochem. J. 427(2):265-274(2010). Kraveka, J.M., et al. J. Biol. Chem. 282(23):16718-16728(2007). Lamesch, P., et al. Genomics 89(3):307-315(2007). Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007): Ternes, P., et al. J. Biol. Chem. 277(28):25512-25518(2002).
Other Notes	Small volumes of anti-DEGS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DEGS1 purchase	MBS6291644 is an antibody targeting DEGS1. Also known as DEGS1, NT (DEGS1, DES1, MLD, Sphingolipid delta(4)-desaturase DES1, Cell migration-inducing gene 15 protein, Degenerative spermatocyte homolog 1, Membrane lipid desaturase) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-DEGS1 antibody
DEGS1 Antibody (N-term) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the DEGS1 antibody detected the DEGS1 protein (arrow).



Immunohistochemistry (IHC) of anti-DEGS1 antibody
DEGS1 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human cerebellum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of DEGS1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DEGS1. It may not necessarily be applicable to this product.

NCBI GI #	4505193
NCBI GeneID	8560
NCBI Accession #	NP_003667.1
UniProt Primary Accession #	O15121
UniProt Related Accession #	O15121
GenBank Nucleotide #	NM_003676.3
NCBI Official Full Name	sphingolipid delta(4)-desaturase DES1
NCBI Official Synonym Full Names	delta(4)-desaturase, sphingolipid 1
NCBI Official Symbol	DEGS1
NCBI Official Synonym Symbols	MLD; DEGS; DES1; Des-1; FADS7; MIG15; DEGS-1
UniProt Protein Name	Sphingolipid delta(4)-desaturase DES1
UniProt Synonym Protein Names	Cell migration-inducing gene 15 protein; Degenerative spermatocyte homolog 1; Membrane lipid desaturase
UniProt Gene Name	DEGS1
UniProt Synonym Gene Names	DES1; MLD
UniProt Entry Name	DEGS1_HUMAN

NCBI Protein Information	sphingolipid delta(4)-desaturase DES1; sphingolipid delta(4)-desaturase DES1; membrane lipid desaturase; dihydroceramide desaturase; sphingolipid delta 4 desaturase; migration-inducing gene 15 protein; sphingolipid delta(4)-desaturase 1; membrane fatty ac
UniProt Comments for DEGS1	Function: Has sphingolipid-delta-4-desaturase activity. Converts D-erythro-sphinganine to D-erythro-sphingosine (E-sphing-4-enine). Ref.2 Subcellular location: Mitochondrion. Endoplasmic reticulum membrane; Multi-pass membrane protein Ref.1 Ref.7. Tissue specificity: Ubiquitous. Ref.1 Post-translational modification: Myristoylation can target the enzyme to the mitochondria leading to an increase in ceramide levels. Sequence similarities: Belongs to the fatty acid desaturase family. DEGS subfamily.
Research Articles on DEGS1	**1.** Dihydroceramide desaturase 1 (DES) is a potential molecular target for regulating apoptotic resistance to photodynamic therapy
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