DAGLA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DAGLA, Polyclonal Antibody
Full Product Name	DAGLA, ID (DAGLA, C11orf11, KIAA0659, NSDDR, Sn1-specific diacylglycerol lipase alpha, Neural stem cell-derived dendrite regulator) (MaxLight 405)
Product Gene Name	anti-DAGLA antibody
Product Synonym Names	DAGLA; C11orf11; KIAA0659; NSDDR; Sn1-specific diacylglycerol lipase alpha; Neural stem cell-derived dendrite regulator
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	114,952 Da
OMIM	phenotype 614015
3D Structure	ModBase 3D Structure for Q9Y4D2
Immunogen	DAGLA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 324-354 amino acids from the Central region of human DAGLA.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-DAGLA antibody	Antibodies; Enzymes; Lipase
Applications Tested/Suitable for anti-DAGLA antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-DAGLA antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-DAGLA antibody	This gene encodes a diacylglycerol lipase. The encoded enzyme is involved in the biosynthesis of the endocannabinoid 2-arachidonoyl-glycerol.
Product References and Citations for anti-DAGLA antibody	Knight, M.A., et al. Hum. Mol. Genet. 17(24):3847-3853(2008). Jung, K.M., et al. Mol. Pharmacol. 68(5):1196-1202(2005). Bisogno, T., et al. J. Cell Biol. 163(3):463-468(2003).
Other Notes	Small volumes of anti-DAGLA 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 DAGLA purchase	MBS6290754 is an antibody targeting DAGLA. Also known as DAGLA, ID (DAGLA, C11orf11, KIAA0659, NSDDR, Sn1-specific diacylglycerol lipase alpha, Neural stem cell-derived dendrite regulator) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	27262632
NCBI GeneID	747
NCBI Accession #	NP_006124.1
UniProt Primary Accession #	Q9Y4D2
UniProt Secondary Accession #	Q6WQJ0; A7E233
UniProt Related Accession #	Q9Y4D2
GenBank Nucleotide #	NM_006133.2
NCBI Official Full Name	sn1-specific diacylglycerol lipase alpha
NCBI Official Synonym Full Names	diacylglycerol lipase, alpha
NCBI Official Symbol	DAGLA
NCBI Official Synonym Symbols	NSDDR; C11orf11; DAGLALPHA; DAGL(ALPHA)
UniProt Protein Name	Sn1-specific diacylglycerol lipase alpha
UniProt Synonym Protein Names	Neural stem cell-derived dendrite regulator
Protein Family	Sn1-specific diacylglycerol lipase
UniProt Gene Name	DAGLA
UniProt Synonym Gene Names	C11orf11; KIAA0659; NSDDR; DGL-alpha
UniProt Entry Name	DGLA_HUMAN
NCBI Protein Information	sn1-specific diacylglycerol lipase alpha; DGL-alpha; neural stem cell-derived dendrite regulator
UniProt Comments for DAGLA	NSDDR: Catalyzes the hydrolysis of diacylglycerol (DAG) to 2- arachidonoyl-glycerol (2-AG), the most abundant endocannabinoid in tissues. Required for axonal growth during development and for retrograde synaptic signaling at mature synapses. Defects in DAGLA may be a cause of spinocerebellar ataxia type 20 (SCA20). Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA20 is an autosomal dominant, adult-onset form characterized by dysarthria due to spasmodic dysphonia followed by slowly progressive ataxia. A copy number variation consisting of a 260-kb duplication at chromosome 11q12.2-12.3 is responsible for SCA20. The critical gene within the duplicated segment may be DAGLA. Belongs to the AB hydrolase superfamily. Lipase family. Protein type: Membrane protein, integral; EC 3.1.1.-; Membrane protein, multi-pass; Hydrolase Chromosomal Location of Human Ortholog: 11q12.2 Cellular Component: plasma membrane; integral to membrane Molecular Function: metal ion binding; lipase activity Biological Process: platelet activation; neuroblast proliferation; arachidonic acid metabolic process; diacylglycerol catabolic process; blood coagulation; neurotransmitter biosynthetic process
Research Articles on DAGLA	**1.** In subcutaneous adipose tissue, DAGL-a mRNA was upregulated and fatty acid amide hydrolase (FAAH) and monoacylglycerol lipase (MAGL) mRNAs were down-regulated in obese subjects, but the diets had no influence.

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