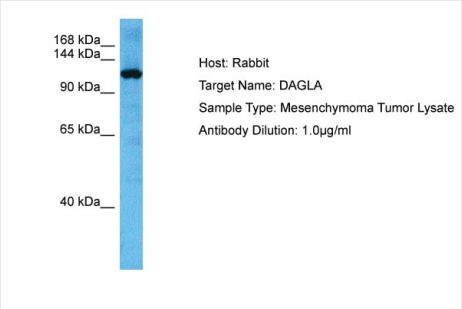
DAGLA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DAGLA, Polyclonal Antibody
Full Product Name	DAGLA Antibody - C-terminal region
Product Gene Name	anti-DAGLA antibody
Product Synonym Gene Name	NSDDR; C11orf11; DAGLALPHA; DAGL(ALPHA)
Immunogen Sequence	Synthetic peptide located within the following region: YQPAKPTPLP RKRSEASPHE NTNHKSPHKN SISLKEQEES LGSPVHHSPF
Clonality	Polyclonal
Host	Rabbit
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	DAGLA peptide (MBS3246760) is used for blocking the activity of DAGLA antibody (MBS3222053)
Molecular Weight	1042
OMIM	phenotype 614015
3D Structure	ModBase 3D Structure for Q9Y4D2
Immunogen	The immunogen is a synthetic peptide directed towards the C terminal region of human DAGLA
Product Categories/Family for anti-DAGLA antibody	Polyclonal; Cell Biology
Applications Tested/Suitable for anti-DAGLA antibody	Western Blot (WB)
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.
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	MBS3222053 is an antibody targeting DAGLA. Also known as DAGLA Antibody - C-terminal region. Host: Rabbit.



Western Blot (WB) of anti-DAGLA antibody
Host: RabbitTarget Name: DAGLASample Tissue: Human Mesenchymoma Tumor lysatesAntibody Dilution: 1ug/ml

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 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

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.** phenotypes associated with rare CNR1 variants are reminiscent of those implicated in the theory of clinical endocannabinoid deficiency syndrome. The severe phenotypes associated with rare DAGLA variants underscore the critical role of rapid 2-AG synthesis and the endocannabinoid system in regulating neurological function and development
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