

DAGLA Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP10260c**Specification**

DAGLA Antibody (Center) Blocking peptide - Product Information

Primary Accession [O9Y4D2](#)
Other Accession [NP_006124.1](#)

DAGLA Antibody (Center) Blocking peptide - Additional Information

Gene ID 747

Other Names

Sn1-specific diacylglycerol lipase alpha, DGL-alpha, 311-, Neural stem cell-derived dendrite regulator, DAGLA, C11orf11, KIAA0659, NSDDR

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DAGLA Antibody (Center) Blocking peptide - Protein Information

Name DAGLA

Synonyms C11orf11, KIAA0659, NSDDR {ECO:0000303|R

Function

Serine hydrolase that hydrolyzes arachidonic acid-esterified diacylglycerols (DAGs) to produce the principal endocannabinoid, 2- arachidonoylglycerol (2-AG) (PubMed:14610053, PubMed:26668358, PubMed:23502535). Preferentially hydrolyzes sn-1 fatty acids from diacylglycerols (DAG) that contain arachidonic acid (AA) esterified at the sn-2 position to biosynthesize 2-AG (PubMed:14610053, PubMed:26668358, PubMed:23502535). Has negligible activity against other lipids including monoacylglycerols and phospholipids (PubMed:14610053). Plays a key role in regulating 2-AG signaling in the central nervous system (CNS). Regulates 2-AG involved in retrograde suppression at central synapses. Supports axonal growth during development and

adult neurogenesis. Plays a role for eCB signaling in the physiological regulation of anxiety and depressive behaviors. Regulates also neuroinflammatory responses in the brain, in particular, LPS-induced microglial activation (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Postsynaptic density membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Cell projection, dendritic spine membrane {ECO:0000250|UniProtKB:Q6WQJ1}; Multi-pass membrane protein. Note=Cycles between the cell surface and an intracellular endosomal compartment. Internalized by early endosomes via a clathrin-independent pathway before transport back to the postsynaptic membrane surface in a PKC-dependent manner

Tissue Location

Highly expressed in brain and pancreas.

DAGLA Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

DAGLA Antibody (Center) Blocking peptide - Images**DAGLA Antibody (Center) Blocking peptide - Background**

This gene encodes a diacylglycerol lipase. The encoded enzyme is involved in the biosynthesis of the endocannabinoid 2-arachidonoyl-glycerol.

DAGLA Antibody (Center) Blocking peptide - References

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)