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DAGLA Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS12648

Specification

DAGLA Antibody (C-Terminus) - Product Information

Application	**WB, IHC**
Primary Accession	Q9Y4D2
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**115kDa KDa**

DAGLA Antibody (C-Terminus) - Additional Information

Gene ID 747

Other Names
Sn1-specific diacylglycerol lipase alpha, DGL-alpha, 3.1.1.-, Neural stem cell-derived dendrite regulator, DAGLA, C11orf11, KIAA0659, NSDDR

Target/Specificity
Human DAGLA.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
DAGLA Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

DAGLA Antibody (C-Terminus) - 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.

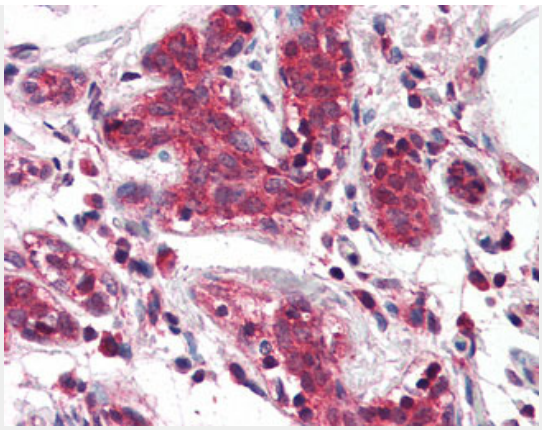
DAGLA Antibody (C-Terminus) - Protocols

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

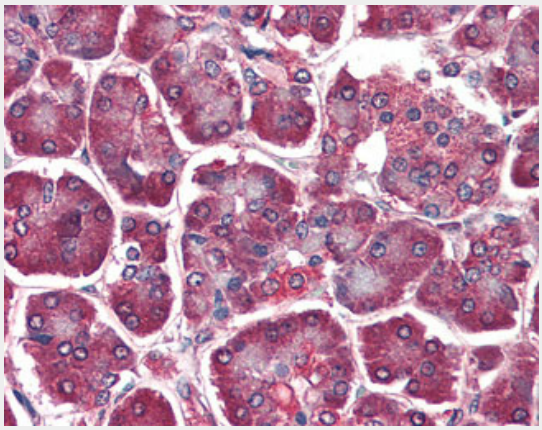
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DAGLA Antibody (C-Terminus) - Images

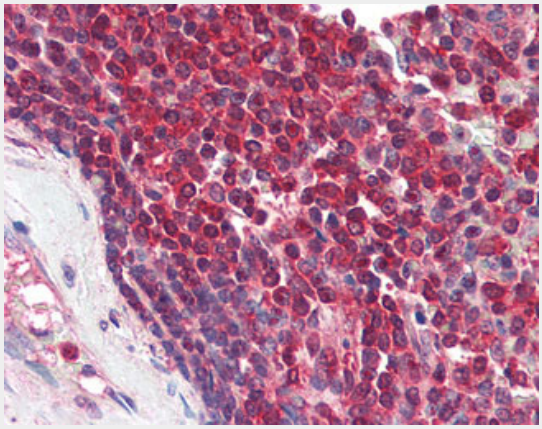
Antibody (0.3 ug/ml) staining of Human Liver lysate (35 ug protein in RIPA buffer).



Anti-DAGLA antibody IHC of human breast.



Anti-DAGLA antibody IHC of human pancreas.



Anti-DAGLA antibody IHC of human spleen.

DAGLA Antibody (C-Terminus) - Background

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.

DAGLA Antibody (C-Terminus) - References

Horiguchi S.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
Ishikawa K.,et al.DNA Res. 5:169-176(1998).

Nakajima D.,et al.DNA Res. 9:99-106(2002).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bisogno T.,et al.J. Cell Biol. 163:463-468(2003).