

# DAGLA Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54642

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF, ICC
<b>Primary Accession</b>	<a href="#">Q9Y4D2</a>
<b>Reactivity</b>	Rat, Pig, Dog, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	114952

## Additional Information

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<b>Gene ID</b>	747
<b>Other Names</b>	Diacylglycerol lipase-alpha, DAGL-alpha, DGL-alpha, 3.1.1.-, Neural stem cell-derived dendrite regulator {ECO:0000303   Ref.1}, Sn1-specific diacylglycerol lipase alpha, DAGLA, C11orf11, KIAA0659, NSDDR {ECO:0000303   Ref.1}
<b>Dilution</b>	Elisa=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ICC=1:100-500,
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

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<b>Name</b>	DAGLA
<b>Synonyms</b>	C11orf11, KIAA0659, NSDDR {ECO:0000303   R
<b>Function</b>	Serine hydrolase that hydrolyzes arachidonic acid-esterified diacylglycerols (DAGs) to produce the principal endocannabinoid, 2- arachidonoylglycerol (2-AG) (PubMed: <a href="#">14610053</a> , PubMed: <a href="#">23502535</a> , PubMed: <a href="#">26668358</a> ). 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: <a href="#">14610053</a> , PubMed: <a href="#">23502535</a> , PubMed: <a href="#">26668358</a> ). Has negligible activity against other lipids including monoacylglycerols and phospholipids (PubMed: <a href="#">14610053</a> ). 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. Also regulates 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.