10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DAGLB Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9323c

Specification

DAGLB Antibody (Center) - Product Information

Application	**FC, WB,E**
Primary Accession	Q8NCG7
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**73732**
Antigen Region	**491-518**

DAGLB Antibody (Center) - Additional Information

Gene ID 221955

Other Names
Sn1-specific diacylglycerol lipase beta, DGL-beta, 311-, KCCR13L, DAGLB

Target/Specificity
This DAGLB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 491-518 amino acids from the Central region of human DAGLB.

Dilution
FC~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DAGLB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DAGLB Antibody (Center) - Protein Information

Name DAGLB

Function Lipase that catalyzes the hydrolysis of arachidonic acid (AA)-esterified diacylglycerols

(DAGs) to produce the principal endocannabinoid, 2-arachidonoylglycerol (2-AG) which can be further cleaved by downstream enzymes to release arachidonic acid (AA) for cyclooxygenase (COX)-mediated eicosanoid production (PubMed:14610053). Preferentially hydrolyzes DAGs at the sn-1 position in a calcium- dependent manner and has negligible activity against other lipids including monoacylglycerols and phospholipids (PubMed:14610053). Plays a key role in the regulation of 2-AG and AA pools utilized by COX1/2 to generate lipid mediators of macrophage and microglia inflammatory responses. Also functions as a polyunsaturated fatty acids-specific triacylglycerol lipase in macrophages. Plays an important role to support the metabolic and signaling demands of macrophages (By similarity).

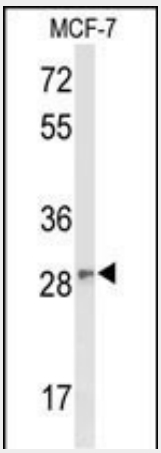
Cellular Location
Cell membrane; Multi-pass membrane protein

DAGLB Antibody (Center) - Protocols

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

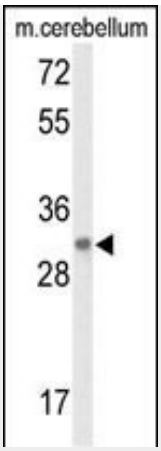
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DAGLB Antibody (Center) - Images

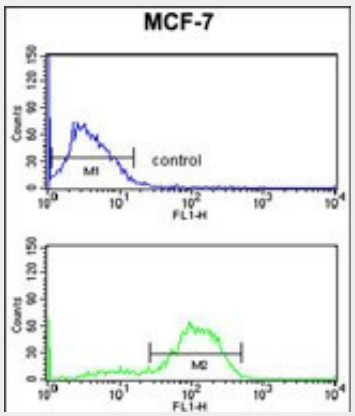


Western blot analysis of DAGLB Antibody (Center) (Cat. #AP9323c) in MCF-7 cell line lysates (35ug/lane). DAGLB (arrow) was detected using the purified Pab;

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blot analysis of DAGLB Antibody (Center) (Cat. #AP9323c) in mouse cerebellum tissue lysates (35ug/lane). DAGLB (arrow) was detected using the purified Pab.



DAGLB Antibody (Center) (Cat. #AP9323c) flow cytometry analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

DAGLB Antibody (Center) - 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.

DAGLB Antibody (Center) - References

Ma,J. Atherosclerosis 191 (1), 63-72 (2007)
Bisogno,T. J. Cell Biol. 163 (3), 463-468 (2003)
Lanfranchi,G. Genome Res. 6 (1), 35-42 (1996)