

DDHD2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP55463

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	O94830
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81032

Additional Information

Gene ID	23259
Other Names	Phospholipase DDHD2, 3.1.1.-, DDHD domain-containing protein 2, KIAA0725p, SAM, WWE and DDHD domain-containing protein 1, DDHD2 (HGNC:29106), KIAA0725, SAMWD1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	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

Name	DDHD2 (HGNC:29106)
Synonyms	KIAA0725, SAMWD1
Function	Diacylglycerol (DAG) and triacylglycerol (TAG) lipase required for proper lipid homeostasis in the central nervous system (PubMed: 29278326 , PubMed: 37832604). It cooperates with PNPLA2/ATGL in neuronal TAG catabolism and hydrolyzes sn-1,3 DAG downstream of PNPLA2/ATGL (By similarity). In vitro, it also acts as a phospholipase that hydrolyzes preferentially phosphatidic acids, including 1,2- dioleoyl-sn-phosphatidic acid, phosphatidylcholine and phosphatidylethanolamine. Specifically binds to phosphatidylinositol 3- phosphate (PI(3)P), phosphatidylinositol 4-phosphate (PI(4)P), phosphatidylinositol 5-phosphate (PI(5)P) and possibly phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2). May be involved in the maintenance of the endoplasmic reticulum and/or Golgi structures. May regulate the transport between Golgi apparatus and plasma membrane.
Cellular Location	Cytoplasm, cytosol. Endoplasmic reticulum-Golgi intermediate compartment.

Golgi apparatus, cis-Golgi network Note=Cycles between the Golgi apparatus and the cytosol. DDHD2 recruitment to the Golgi/endoplasmic reticulum-Golgi intermediate compartment (ERGIC) is regulated by the levels of phosphoinositides, including PI(4)P

Tissue Location

Widely expressed (at protein level).

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