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Rabbit Anti-DDHD1 antibody

SL14221R

Product Name:	DDHD1
Chinese Name:	磷脂酶DDHD1抗体
Alias:	DDHD domain containing 1; DDHD domain containing protein 1; KIAA1705; PA-PLA1; PAPLA1; Phosphatidic acid-preferring phospholipase A1 homolog; Phospholipase DDHD1; Spastic paraplegia 28 (autosomal recessive); SPG28.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	100kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DDHD1:751-850/900
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	Phosphatidic acid is released following cell activation and functions as a second messenger in several signaling pathways. DDHD1 is a lipase that catalyzes degradation of phosphatidic acid and attenuates cell activation. **Function:**

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Phospholipase that hydrolyzes phosphatidic acid, including 1,2-dioleoyl-sn-phosphatidic acid. The different isoforms may change the substrate specificity.

Subunit:
Forms homooligomers and, to a much smaller extent, heterooligomers with DDHD2.

Subcellular Location:
Cytoplasmic

Tissue Specificity:
Highly expressed in testis. Also expressed in brain, spleen and lung. Only expressed in cerebellum in fetal brain.

DISEASE:
Spastic paraplegia 28, autosomal recessive (SPG28) [MIM:609340]: A form of spastic paraplegia, a neurodegenerative disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. Rate of progression and the severity of symptoms are quite variable. Initial symptoms may include difficulty with balance, weakness and stiffness in the legs, muscle spasms, and dragging the toes when walking. In some forms of the disorder, bladder symptoms (such as incontinence) may appear, or the weakness and stiffness may spread to other parts of the body. Some SPG28 patients also have distal sensory impairment. Note=The disease is caused by mutations affecting the gene represented in this entry.

Similarity:
Belongs to the PA-PLA1 family.
Contains 1 DDHD domain.

SWISS:
Q8NEL9

Gene ID:
80821

Database links:

Entrez Gene: 80821 Human

Entrez Gene: 114874 Mouse

Entrez Gene: 305816 Rat

Omim: 614603 Human

SwissProt: Q8NEL9 Human

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	SwissProt: Q80YA3 Mouse Unigene: 125525 Human Unigene: 121918 Mouse Unigene: 163271 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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