

## 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.

**Research Area** Cell biology Signal transduction The new supersedes the old

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** (predicted: Human, Mouse, Rat, Dog, Pig, Cow, Rabbit, Sheep, )

IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000  
(Paraffin sections need antigen repair)

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 100kDa

**Cellular localization** cytoplasmic

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human DDHD1: 751-850/900

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed** [PubMed](#)

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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:**

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

**Product  
Detail**



[Entrez Gene: 114874](#) Mouse

[Entrez Gene: 305816](#) Rat

[Omim: 614603](#) Human

[SwissProt: Q8NEL9](#) Human

[SwissProt: Q80YA3](#) Mouse

[Unigene: 125525](#) Human

[Unigene: 121918](#) Mouse

[Unigene: 163271](#) Rat