



## Rabbit Anti-Drebrin antibody

SL5835R

<b>Product Name:</b>	Drebrin
<b>Chinese Name:</b>	脑发育调节蛋白抗体
<b>Alias:</b>	D0S117E; DBN 1; DBN1; Developmentally regulated brain protein; Developmentally-regulated brain protein; DKFZp434D064; DREB_HUMAN; Drebrin 1; Drebrin; Drebrin E; Drebrin1; DrebrinE.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	71kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Drebrin:151-250/651
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Drebrin is a major neuronal F-actin binding protein involved in the control of actin dynamics and neuronal morphogenesis. Three major isoforms of drebrin, resulting from alternative splicing of a single gene, have been identified in the brain: the embryonic isoforms designated E1 and E2 and the adult or A isoform (95-120 kDa). An additional truncated form of drebrin A, s-drebrin/A2 (42 kDa), is specifically expressed in the adult

brain, but not in non-neuronal tissues. Drebrin is also widely expressed in a variety of cells including epithelial, endothelial, and smooth muscle cells and is associated at cell-cell adhering junction sites.

Drebrin is thought to play a central role in the formation of axons and dendrites during neuronal development and in neuronal plasticity in the adult brain. The expression of each drebrin isoform is regulated throughout distinct phases in neuronal development. The earliest embryonic form E1, is thought to function in migration, while the E2 isoform, which replaces E1 during embryogenesis, is believed to play a role in migration as well as formation of axons and dendrites. Drebrin E2 is present at low levels in the adult brain. The drebrin A isoform, which is only present in mature neurons, is assumed to be involved in synaptic plasticity. Drebrin E2 and A isoforms are targeted to different regions of actin localization. In neurons, the E2 isoform localizes to the submembrane region, while the A isoform is specifically located and evenly distributed throughout the post-synaptic dendritic spine.

**Function:**

Drebrins might play some role in cell migration, extension of neuronal processes and plasticity of dendrites, respectively.

**Subunit:**

Contains 1 ADF-H domain.

**Subcellular Location:**

Cytoplasm.

**Tissue Specificity:**

Brain neurons. Also found in the heart, placenta, skeletal muscle, kidney and pancreas.

**Similarity:**

Contains 1 ADF-H domain.

**SWISS:**

Q16643

**Gene ID:**

1627

**Database links:**

[Entrez Gene: 505406](#)Cow

[Entrez Gene: 1627](#)Human

[Entrez Gene: 56320](#)Mouse

[Entrez Gene: 100008894](#)Rabbit

[Entrez Gene: 81653](#)Rat

[Omin: 126660](#)Human

[SwissProt: Q16643](#)Human

[SwissProt: Q9QXS6](#)Mouse

[SwissProt: Q07266](#)Rat

[Unigene: 130316](#)Human

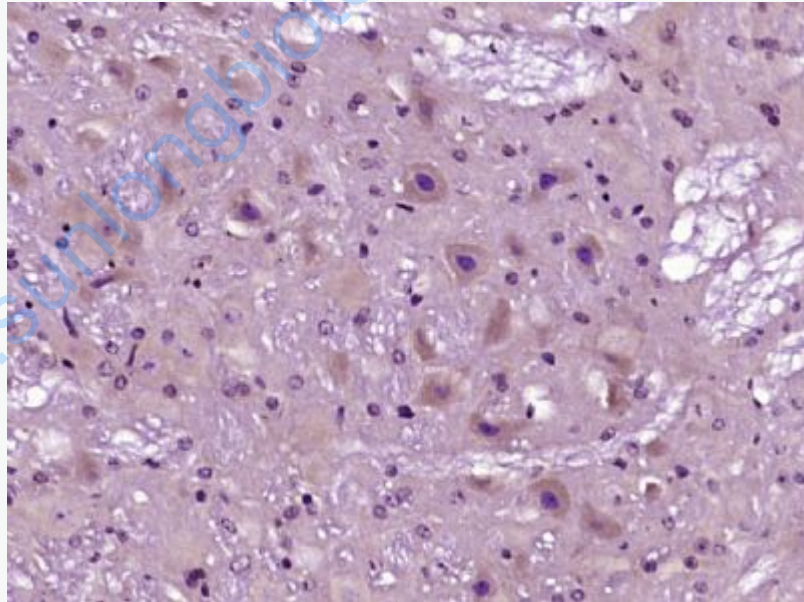
[Unigene: 19016](#)Mouse

[Unigene: 11247](#)Rat

**Important Note:**

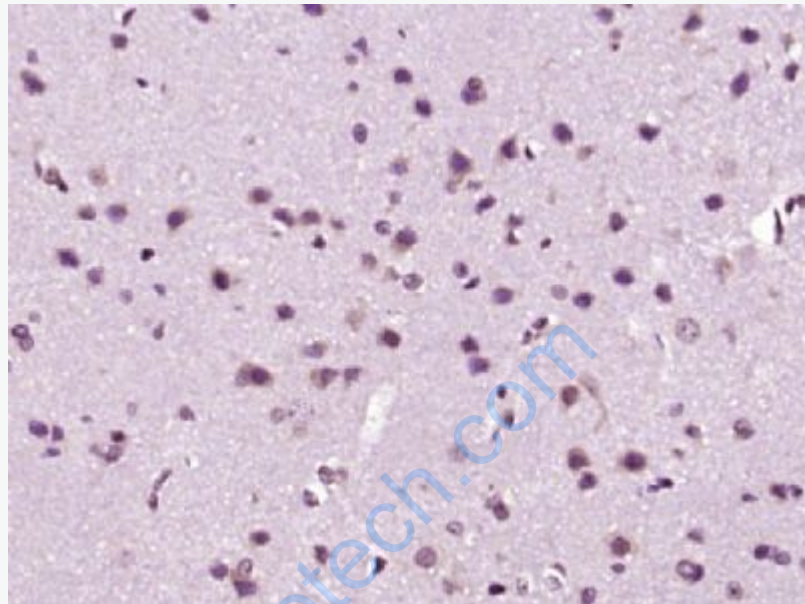
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**Picture:**

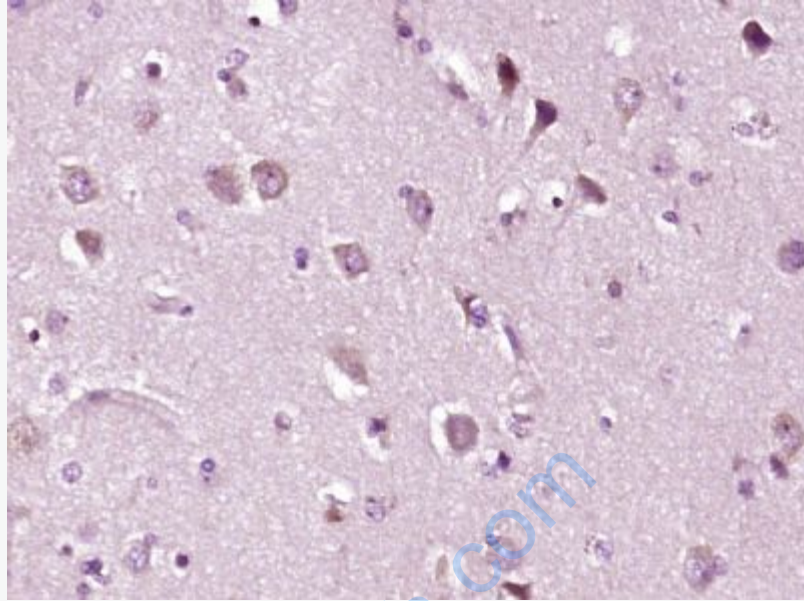


Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Drebrin) Polyclonal Antibody, Unconjugated (SL5835R) at 1:400 overnight at 4°C, followed by operating

according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Drebrin) Polyclonal Antibody, Unconjugated (SL5835R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Drebrin) Polyclonal Antibody, Unconjugated (SL5835R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.