



## Rabbit Anti-CTNND2/delta 2 Catenin antibody

SL22251R

<b>Product Name:</b>	CTNND2/delta 2 Catenin
<b>Chinese Name:</b>	δ-连环蛋白抗体
<b>Alias:</b>	Catenin (cadherin associated protein) delta 2; Catenin delta 2; Catenin delta-2; CTND2_HUMAN; CTNND 2; CTNND2; Delta catenin; Delta-catenin; GT 24; GT24; Neural plakophilin related arm repeat protein; Neural plakophilin related armadillo repeat protein; Neural plakophilin-related ARM-repeat protein; Neurojungin; NPRAP
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Sheep,
<b>Applications:</b>	IHC-P=1:400-800 (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>	133kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CTNND2/delta 2 Catenin:111-210/1225
<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>	The Alpha-, Beta-, Gamma-, and Delta -catenins are proteins that bind to the highly conserved, intracellular cytoplasmic tail of E-cadherin. Together, the catenin/cadherin complexes play an important role mediating cellular adhesion. Alpha-catenin interacts with E-cadherin associated protein and also associates with other members of the

cadherin family, such as N-cadherin and P-cadherin. Beta-catenin associates with the cytoplasmic portion of E-cadherin, which is necessary for the function of E-cadherin as an adhesion molecule. Beta-catenin also complexes with the tumor suppressor protein APC. Gamma-catenin, also known as plakoglobin, is a protein that binds  $\beta$ -catenin and N-cadherin. Gamma-catenin interacts with presenilin 1 and is expressed in the brain. The gene encoding Gamma-catenin maps to human chromosome 5p15.2. A hemizygous loss of the gene encoding Gamma-catenin leads to the mental retardation associated with Cri-du-Chat syndrome. In addition, the transmembrane phosphatase PTPm associates with catenin/ cadherin complexes and may regulate complex signaling.

**Function:**

Functions as a transcriptional activator when bound to ZBTB33 (By similarity). May be involved in neuronal cell adhesion and tissue morphogenesis and integrity by regulating adhesion molecules.

**Subunit:**

Binds to E-cadherin at a juxtamembrane site within the cytoplasmic domain. Interacts with PDZD2. Interacts with ZBTB33 (By similarity). Binds to PSEN1. Interacts with ARHGEF28. Interacts (via the extreme C-terminus) with FRMPD2 (via the PDZ 2 domain).

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Predominantly expressed in brain.

**Post-translational modifications:**

O-glycosylated.

Phosphorylated upon DNA damage, probably by ATM or ATR.

**Similarity:**

Belongs to the beta-catenin family.

Contains 9 ARM repeats.

**SWISS:**

Q9UQB3

**Gene ID:**

1501

**Database links:**

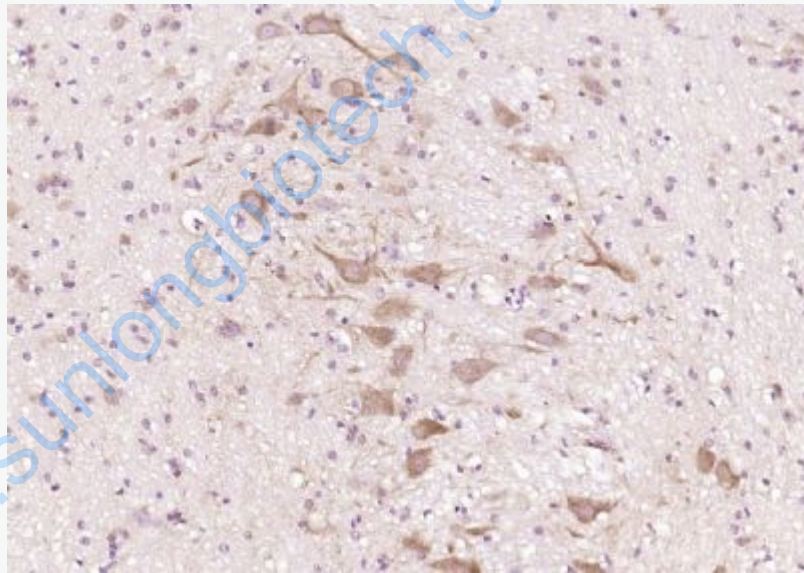
[Entrez Gene: 1501](#) Human

[Entrez Gene: 114028](#) Rat

[Omin: 604275](#) Human  
[SwissProt: Q9UQB3](#) Human  
[SwissProt: O35116](#) Rat  
[Unigene: 314543](#) Human  
[Unigene: 15163](#) Rat

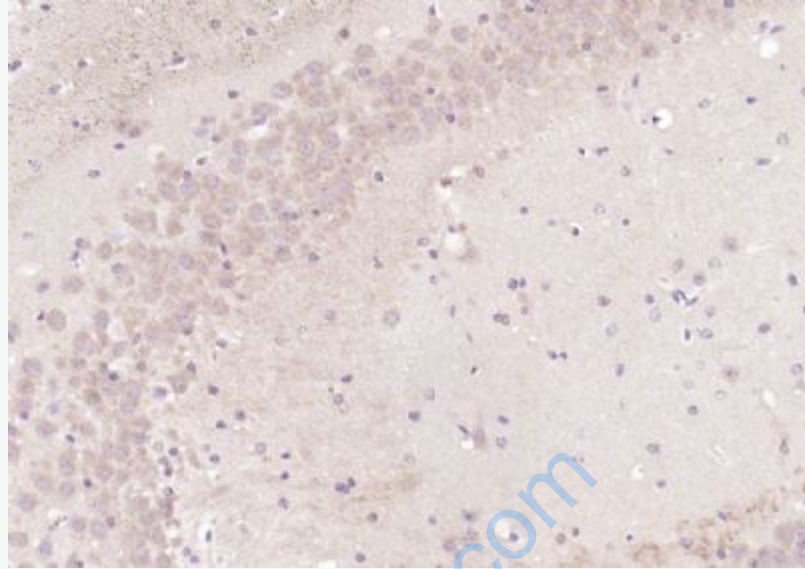
**Important Note:**

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

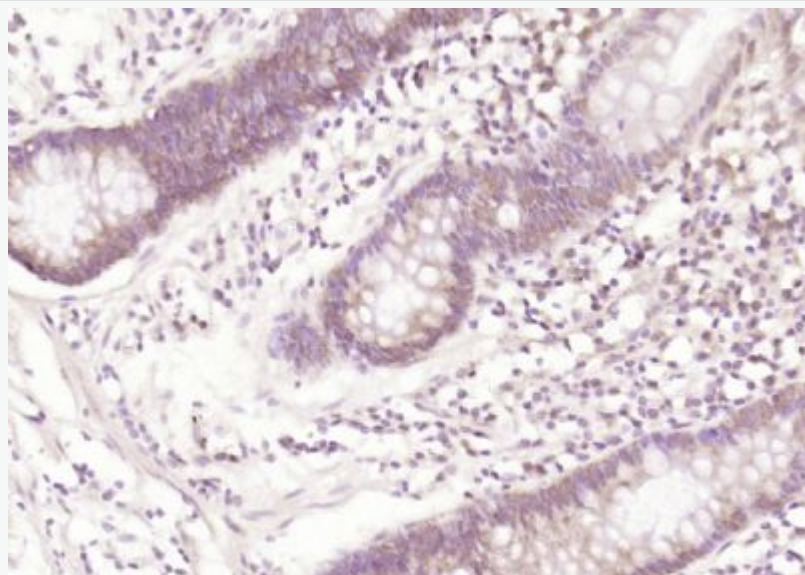


**Picture:**

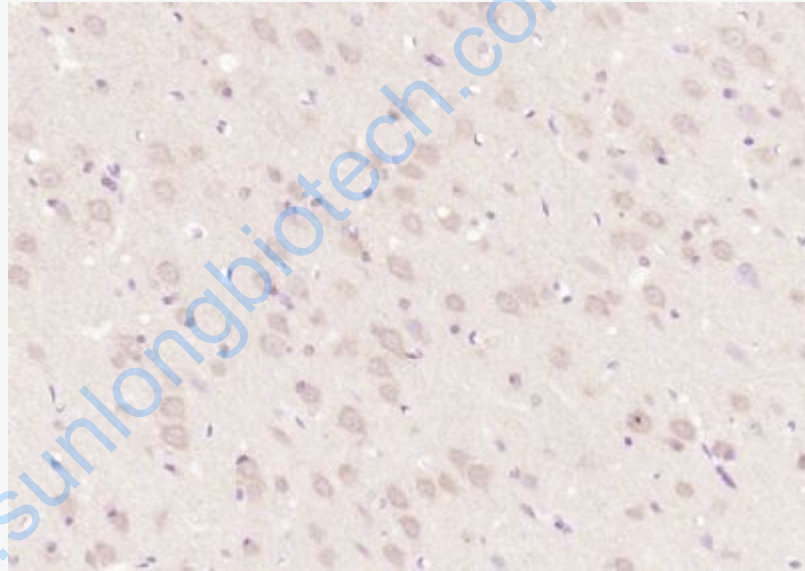
Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CTNND2 delta 2 Catenin) Polyclonal Antibody, Unconjugated (SL22251R) 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 (mouse brain); 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 (CTNND2 delta 2 Catenin) Polyclonal Antibody, Unconjugated (SL22251R) 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 rectal carcinoma); 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 (CTNND2 delta 2 Catenin) Polyclonal Antibody, Unconjugated (SL22251R) 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); 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 (CTNND2 delta 2 Catenin) Polyclonal Antibody, Unconjugated (SL22251R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.