



Rabbit Anti-CACNB1 antibody

SL6517R

Product Name:	CACNB1
Chinese Name:	钙通道电压依赖性β1蛋白抗体
Alias:	CAB1; CACNLB1; Calcium channel voltage dependent beta 1 subunit; Voltage dependent L type calcium channel beta 1 subunit; CACB1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	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.
Molecular weight:	66kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CACNB1:301-400/598
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:	The protein encoded by CACNB1 belongs to the calcium channel beta subunit family. It plays an important role in the calcium channel by modulating G protein inhibition, increasing peak calcium current, controlling the alpha-1 subunit membrane targeting and shifting the voltage dependence of activation and inactivation. Function:

The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting.

Subunit:

The L-type calcium channel is composed of four subunits: alpha-1, alpha-2, beta and gamma. Interacts with JSRP1. Interacts with RYR1 (By similarity).

Subcellular Location:

Cell membrane, sarcolemma; Peripheral membrane protein; Cytoplasmic side.

Tissue Specificity:

Isoform 1 and isoform 3 are expressed in brain, heart, spleen, central nervous system and neuroblastoma cells. Isoform 2 is expressed in skeletal muscle.

Similarity:

Belongs to the calcium channel beta subunit family.
Contains 1 SH3 domain.

SWISS:

Q02641

Gene ID:

782

Database links:

[Entrez Gene: 327703](#)Cow

[Entrez Gene: 782](#)Human

[Entrez Gene: 12295](#)Mouse

[Entrez Gene: 50688](#)Rat

[Omim: 114207](#)Human

[SwissProt: Q9MZL7](#)Cow

[SwissProt: Q02641](#)Human

[SwissProt: Q8R3Z5](#)Mouse

[SwissProt: P19517](#)Rabbit

[SwissProt: P54283](#)Rat

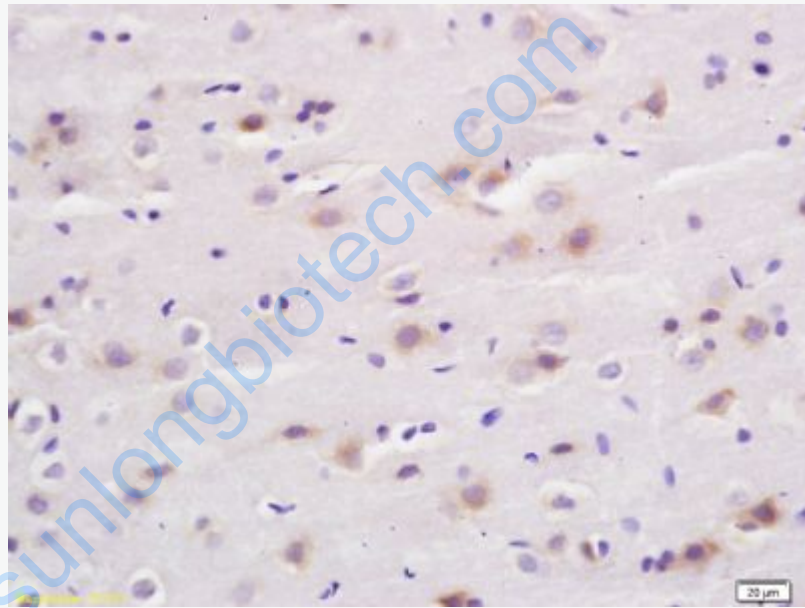
[Unigene: 635](#)Human

[Unigene: 41252](#)Mouse

[Unigene: 9417](#)Rat

Important Note:

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



Picture:

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-CACNB1 Polyclonal Antibody, Unconjugated(SL6517R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining