



Recombinant Rat Voltage-dependent L-type calcium channel subunit beta-1 (Cacnb1)

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| Product Code | CSB-MP004411RA |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Uniprot No. | P54283 |
| Product Type | Recombinant Protein |
| Immunogen Species | Rattus norvegicus (Rat) |
| Purity | >85% (SDS-PAGE) |
| Sequence | MVQKSGMSRG PYPSPQEIPM EVFDPSPQGK YSKRKGRFKR SDGSTSSDTT SNSFVRQGS A ESYTSRPSDS DVSLEEDREA LRKEAERQAL AQLEKAKTKP VAFAVRTNVG YNPSPGDEVP VQGVAITFEP KDFLHIKEY NNDWWIGRLV KEGCEVGFIP SPVKLDSLRL LQEQLRQNR LSSSKSGDNS SSSLGDVVTG TRRTPPASA KQKQKSTEHV PPYDVVPSMR PIILVGPSLK GYEVTDMMQK ALFDLKHFR DGRISITRVT ADISLAKRSV LNNPSKHIII ERSNTRSSLA EVQSEIERIF ELARTLQLVA LDADTINHPA QLSKTSLAPI IVYIKITSPK VLQRLIKSRG KSQSKHLNVQ IAASEKLAQC PPEMFDIILD ENQLEDACEH LAEYLEAYWK ATHPPSRTPP NPLLNRMTAT AALAVSPAPV SNLQGPYLVS GDQPLDRATG EHASVHEYPG ELGQPPGLYP SNHPPGRAGT LWALSRQDTF DADTPGSRNS VYTEPGDSCV DMETDPSEGP GPGDPAGGGT PPARQGSWEE EEDYEEEMTD NNRNRGRNKAR YCAEGGGPVL GRNKNELEGW GQGVYIR |
| Source | Mammalian cell |
| Target Names | Cacnb1 |
| Protein Names | Recommended name: Voltage-dependent L-type calcium channel subunit beta-1 Short name= CAB1 Alternative name(s): Calcium channel voltage-dependent subunit beta 1 |
| Expression Region | 1-597 |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | Tag type will be determined during the manufacturing process. |
| Protein Length | full length protein |
| Target Details | This protein 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. Alternative splicing occurs at this locus and three transcript variants encoding three distinct isoforms have been identified. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a |



concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.