

# AB-NN222-1

## Cav beta 1 Antibody

Pan-specific monoclonal antibody (S7-18) for monitoring the expression of rat Cav beta 1



**KINEXUS**

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### Target Protein

<b>Name Long:</b>	Voltage-dependent L-type calcium channel subunit beta-1 (Cav beta 1)
<b>Alias:</b>	CACNB1, CAB1, CACNLB1, voltage dependent L type calcium channel beta 1 subunit
<b>UniProt ID:</b>	P54283 - Rat
<b>Human Predicted Mass (KDa):</b>	65.714 (598 AA; Q02641-1); 57.864 (523 AA; Q02641-2); 53.006 (478 AA; Q02641-3)
<b>Observed SDS-PAGE Mass (KDa):</b>	55 + 80

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic peptide amino acids 19-34 of rat CavB1
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### Production

<b>Antibody Host Species:</b>	Mouse
<b>Antibody Type:</b>	Monoclonal
<b>Antibody Ig Isotype Clone Lot:</b>	69 IgG1
<b>Antibody Purification:</b>	Protein G purified
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	15DE1
<b>Storage Buffer:</b>	Phosphate buffered saline, pH 7.4, 50% glycerol, 0.09% sodium azide
<b>Storage Conditions and Stability:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles. For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

### Applications

<b>Product Use:</b>	WB   IHC   ICC/IF   IP
<b>Antibody Dilution Recommended:</b>	WB (1:1000), IHC (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.
<b>Antibody Species Reactivity:</b>	Human   Mouse   Rat
<b>Antibody Positive Control:</b>	1 µg/ml of SMC-317 was sufficient for detection of Cavβ1 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
<b>Target Detection Immunoblotting:</b>	Detects ~80 and 55 kDa proteins.
<b>Antibody Specificity:</b>	Very High
<b>Antibody Cross Reactivities:</b>	No cross-reactivity against Cav Beta4.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit [www.kinexusproducts.ca](http://www.kinexusproducts.ca) or contact us at 1-888-546-3987