

# AB-NN226-1

## Cav1.3 Antibody

Pan-specific monoclonal antibody (S48A-9) for monitoring the expression of rat Cav1.3



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Voltage-dependent L-type calcium channel subunit alpha-1D (Cav1.3)
<b>Alias:</b>	alpha-1 polypeptide, CAC1D_HUMAN, CACH3, CACN4, CACNA 1D, Cacna1d, CACNL1A2, Calcium channel, Calcium channel L type alpha 1 polypeptide isoform 2, Calcium channel neuroendocrine/brain type alpha 1 subunit, Calcium channel voltage dependent L type alpha 1D subunit, CCHL1A2, isoform 2, L type, Voltage dependent L type calcium channel subunit alpha 1D, Voltage gated calcium channel alpha subunit Cav1.3
<b>UniProt ID:</b>	P27732 - Rat
<b>Human Predicted Mass (KDa):</b>	247.566 (2181 AA; Q01668-2); 245.141 (2161 AA; Q01668-1); 242.417 (2137 AA; Q01668-3); 187.035 (1647 AA; Q01668-4)
<b>Observed SDS-PAGE Mass (KDa):</b>	250

### Immunogen

<b>Antibody Immunogen Source:</b>	Fusion protein amino acids 859-875 of rat Cav1.3
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### Production

<b>Antibody Host Species:</b>	Mouse
<b>Antibody Type:</b>	Monoclonal
<b>Antibody Ig Isotype Clone Lot:</b>	5 IgG2aKappa
<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-301 was sufficient for detection of Cav1.3 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 a ~250 kDa protein.
<b>Antibody Specificity:</b>	High
<b>Antibody Cross Reactivities:</b>	No cross-reactivity against Cav1.2.

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