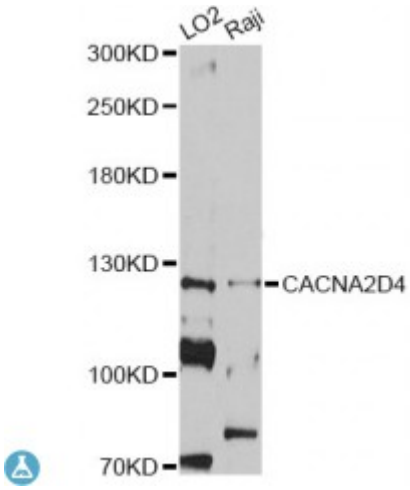
Anti-CACNA2D4 Antibody



Description	This gene encodes a member of the alpha-2/delta subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. Various versions of each of these subunits exist, either expressed from similar genes or the result of alternative splicing. Research on a highly similar protein in rabbit suggests the protein described in this record is cleaved into alpha-2 and delta subunits. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized.
Model	STJ114175
Host	Rabbit
Reactivity	Human, Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 992-1115 of human CACNA2D4 (NP_758952.4).
Gene ID	93589
Gene Symbol	CACNA2D4
Dilution range	WB 1:500 - 1:2000
Tissue Specificity	Predominantly expressed in certain types of endocrine cells, Present in the Paneth cells of the small intestine, Also present in the erythroblasts in the fetal liver, in the cells of the zona reticularis of the adrenal gland and in the basophils of the pituitary, Present at low level in some brain regions such as the cerebellum (at protein level)

Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Voltage-dependent calcium channel subunit alpha-2/delta-4 Voltage-gated calcium channel subunit alpha-2/delta-4
Molecular Weight	127.938 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:20202OMIM:608171Reactome:R-HSA-5576892
Alternative Names	Voltage-dependent calcium channel subunit alpha-2/delta-4 Voltage-gated calcium channel subunit alpha-2/delta-4
Function	The alpha-2/delta subunit of voltage-dependent calcium channels regulates calcium current density and activation/inactivation kinetics of the calcium channel,
Cellular Localization	Membrane
Post-translational Modifications	May be proteolytically processed into subunits alpha-2-4 and delta-4 that are disulfide-linked, It is however unclear whether such cleavage really takes place in vivo and has a functional role ,