Anti-C2D1A antibody

Description	Unconjugated Rabbit polyclonal to C2D1A

Model	STJ191919
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Gene ID	54862
Gene Symbol	CC2D1A
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	C2D1A Polyclonal Antibody detects endogenous levels of protein.
Purification	C2D1A antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Coiled-coil and C2 domain-containing protein 1A Akt kinase-interacting protein 1 Five prime repressor element under dual repression-binding protein 1 FRE under dual repression-binding protein 1 Freud-1 Putative NF-kappa-B-act
Molecular Weight	104 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid form in PBS containing 50% glycerol,and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:30237OMIM:608443
Alternative Names	Coiled-coil and C2 domain-containing protein 1A Akt kinase-interacting protein 1 Five prime repressor element under dual repression-binding protein 1 FRE under dual repression-binding protein 1 Freud-1 Putative NF-kappa-B-act
Function	Transcription factor that binds specifically to the DRE (dual repressor element) and represses HTR1A gene transcription in neuronal cells. The combination of calcium and ATP specifically inactivates the binding with FRE. May play a role in the altered regulation of HTR1A associated with anxiety and major depression. Mediates HDAC-independent repression of HTR1A promoter in neuronal cell. Performs essential function in controlling functional maturation of synapses . Plays distinct roles depending on its localization. When cytoplasmic, acts as a scaffold protein in the PI3K/PDK1/AKT pathway. Repressor of HTR1A when nuclear. In the centrosome, regulates spindle pole localization of the cohesin subunit SCC1/RAD21, thereby mediating centriole cohesion during mitosis.
Sequence and Domain Family	The C2 domain is required for the repression.
Cellular Localization	Cytoplasm Nucleus Cytoplasm, cytoskeleton, microtubule organizing center, centrosome
Post-translational Modifications	Phosphorylation on Ser-208 by CDK1 promotes spindle pole localization and association with SCC1/RAD21.