# Anti-C2D1A antibody

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| **Description** | Unconjugated Rabbit polyclonal to C2D1A |

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| **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 |

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| **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. |