

ARG57331 anti-CC2D1A antibody

Package: 100 µl
Store at: -20°C

Summary

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|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes CC2D1A |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | CC2D1A |
| Species | Human |
| Immunogen | Recombinant Protein of Human CC2D1A. |
| Conjugation | Un-conjugated |
| Alternate Names | MRT3; Five prime repressor element under dual repression-binding protein 1; Freud-1/Aki1; FREUD-1; Akt kinase-interacting protein 1; Putative NF-kappa-B-activating protein 023N; Freud-1; FRE under dual repression-binding protein 1; Coiled-coil and C2 domain-containing protein 1A |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|--------------|
| | IHC-P | 1:50 - 1:200 |
| | WB | 1:500-1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | SKOV3 | |

Properties

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|---------------------|---|
| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|----------------|---|
| Gene Symbol | CC2D1A |
| Gene Full Name | coiled-coil and C2 domain containing 1A |
| Background | This gene encodes a transcriptional repressor that binds to a conserved 14-bp 5'-repressor element and regulates expression of the 5-hydroxytryptamine (serotonin) receptor 1A gene in neuronal cells. The DNA binding and transcriptional repressor activities of the protein are inhibited by calcium. A mutation in this gene results in nonsyndromic mental retardation-3.[provided by RefSeq, Oct 2009] |
| 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 (By similarity). 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. [UniProt] |
| Calculated Mw | 104 kDa |
| PTM | Phosphorylation on Ser-208 by CDK1 promotes spindle pole localization and association with SCC1/RAD21. |

Images



SKOV3

ARG57331 anti-CC2D1A antibody WB image

Western blot: SKOV3 cell lysate stained with ARG57331 anti-CC2D1A antibody.