

KD-Validated Anti-CC2D1A Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1147

Product Information

Application	WB, FC
Primary Accession	Q6P1N0
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 3045
Calculated MW	104062
Gene Name	CC2D1A
Aliases	CC2D1A; Coiled-Coil And C2 Domain Containing 1A; Five Prime Repressor Element Under Dual; Repression-Binding Protein 1; Akt Kinase-Interacting Protein 1; MRT3; TAPE; Coiled-Coil And C2 Domain-Containing Protein 1A; FRE Under Dual Repression-Binding Protein 1; Putative NF-Kappa-B-Activating Protein 023N; TBK1-Associated Protein In Endolysosomes 2; Lethal (2) Giant Discs Homolog 2; FLJ20241; Freud-1; FREUD-1; Aki-1; Lgd2; Five Repressor Element Under Dual Repression-Binding Protein 1; Mental Retardation, Nonsyndromic, Autosomal Recessive, 3; Putative NFkB Activating Protein; Freud-1/Aki1; AKI-1; LGD2; AKI1
Immunogen	A synthesized peptide derived from CC2D1A

Additional Information

Gene ID	54862
Other 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-activating protein 023N, CC2D1A, AKI1, LGD2 {ECO:0000305}

Protein Information

Name	CC2D1A
Synonyms	AKI1, LGD2 {ECO:0000305}
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.

Cellular Location

Cytoplasm. Nucleus {ECO:0000250 | UniProtKB:Q66HA5}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

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