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Recombinant Anti-CC2D1A Rabbit mAb

Catalog # AP95357

Product Information

Application	WB, FC, IF/IC
Primary Accession	Q6P1N0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	104062

Additional Information

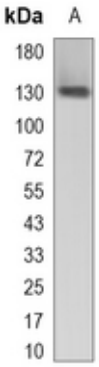
Gene ID	54862
Other Names	AKI1; Coiled-coil and C2 domain-containing protein 1A; Akt kinase-interacting protein 1; Five prime repressor element under dual repression-binding protein 1; FRE under dual repression-binding protein 1; Freud-1; Putative NF-kappa-B-activating protein 023N
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human CC2D1A protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

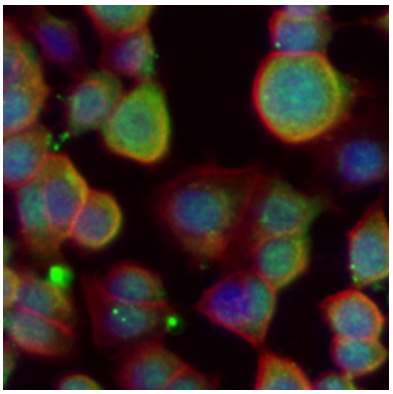
Name	CC2D1A
Synonyms	AKI1, LGD2 {ECO:0000305}
Function	Transcription factor that binds specifically to the DRE (dual repressor element) and represses HTR1A gene transcription in neuronal cells. The combination of calcium and ATP specifically inactivates the binding with FRE. May play a role in the altered 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

Images



Western blot analysis of CC2D1A expression in Hela (A) whole cell lysates. (Predicted band size: 104 kD; Observed band size: 130 kD)



Immunofluorescent analysis of CC2D1A staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).