CC2D1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CC2D1A, Polyclonal Antibody
Full Product Name	CC2D1A (AKI1, Coiled-coil and C2 Domain-containing Protein 1A, Akt Kinase-interacting Protein 1, Five Prime Repressor Element Under Dual Repres
Product Gene Name	anti-CC2D1A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CC2D1A.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	103,934 Da
OMIM	phenotype 610055
3D Structure	ModBase 3D Structure for Q6P1N0
Immunogen	Full length human CC2D1A, aa1-951 (NP_060191.3).
Immunogen Sequence	MHKRKGPPGPPGRGAAAARQLGLLVDLSPDGLMIPEDGANDEELEAEFLALVGGQPPALEKLKGKGPLPMEAIEKMASLCMRDPDEDEEEGTDEDDLEA
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-CC2D1A antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CC2D1A antibody	Western Blot (WB)
Application Notes for anti-CC2D1A antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CC2D1A antibody	CC2D1A is a transcriptional repressor that binds to a conserved 14-bp 5'-repressor element and regulates expression of the 5-hydroxytryptamine (sero

Other Notes	Small volumes of anti-CC2D1A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece
Searchable Terms for CC2D1A purchase	MBS6372463 is an antibody targeting CC2D1A. Also known as CC2D1A (AKI1, Coiled-coil and C2 Domain-containing Protein 1A, Akt Kinase-interactin

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CC2D1A. It may not necessarily be applicable to this product.

NCBI GI #	96974985
NCBI GeneID	54862
NCBI Accession #	NP_060191.3
UniProt Primary Accession #	Q6P1N0
UniProt Secondary Accession #	Q7Z435; Q86XV0; Q8NF89; Q9H603; Q9NXI1
UniProt Related Accession #	Q6P1N0
GenBank Nucleotide #	NM_017721
NCBI Official Full Name	coiled-coil and C2 domain-containing protein 1A
NCBI Official Synonym Full Names	coiled-coil and C2 domain containing 1A
NCBI Official Symbol	CC2D1A
NCBI Official Synonym Symbols	MRT3; FREUD-1; Freud-1/Aki1
UniProt Protein Name	Coiled-coil and C2 domain-containing protein 1A
UniProt Synonym Protein Names	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
Protein Family	Coiled-coil and C2 domain-containing protein
UniProt Gene Name	CC2D1A
UniProt Synonym Gene Names	AKI1; FRE under dual repression-binding protein 1; Freud-1
UniProt Entry Name	C2D1A_HUMAN
NCBI Protein Information	coiled-coil and C2 domain-containing protein 1A
NCBI Summary for CC2D1A	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 a nonsyndromic form of cognitive disability (MRT3). [provided by RefSeq, Jul 2017]

UniProt Comments for CC2D1A	CC2D1A: a transcription factor that binds specifically to the FRE (five repressor element) and represses 5- HT1A 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 5- HT1A associated with anxiety and major depression. Mediates HDAC-independent repression of 5- HT1A promoter in neuronal cells. Three alternatively spliced human isoforms have been described. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 19p13.12 Cellular Component: membrane; cytoplasm; microtubule organizing center; nucleus Molecular Function: signal transducer activity Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; transcription, DNA-dependent; negative regulation of transcription from RNA polymerase II promoter; signal transduction Disease: Mental Retardation, Autosomal Recessive 3
Research Articles on CC2D1A	**1.** Both expressions of CC2D1A and HTR1A genes studied on autism spectrum disorder cases and controls were significantly different
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