CAND1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CAND1, Monoclonal Antibody
Full Product Name	CAND1 (Cullin-Associated and Neddylation-dissociated 1, DKFZp434M1414, FLJ10114, FLJ10929, FLJ38691, FLJ90441, KIAA0829, TIP120, TIP120A) (MaxLight 650)
Product Gene Name	anti-CAND1 antibody
Product Synonym Names	Cullin-Associated and Neddylation-dissociated 1; DKFZp434M1414; FLJ10114; FLJ10929; FLJ38691; FLJ90441; KIAA0829; TIP120; TIP120A
Clonality	Monoclonal
Isotype	IgG3,k
Clone Number	4D10
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified
Specificity	Recognizes CAND1.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	136kDa
OMIM	607727
3D Structure	ModBase 3D Structure for Q86VP6
Immunogen	CAND1 (NP_060918, 1aa-100aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MASASYHISNLLEKMTSSDKDFRFMATNDLMTELQKDSIKLDDDSERKVVKMILKLLEDKNGEVQNLAVKCLGPLVSKVKEYQVETIVDTLCTNMLSDKE
Conjugate	MaxLight650
Product Categories/Family for anti-CAND1 antibody	Antibodies; Cullin
Applications Tested/Suitable for anti-CAND1 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-CAND1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CAND1 antibody	MBS6226807 is an antibody targeting CAND1. Also known as CAND1 (Cullin-Associated and Neddylation-dissociated 1, DKFZp434M1414, FLJ10114, FLJ10929, FLJ38691, FLJ90441, KIAA0829, TIP120, TIP120A) (MaxLight 650). Host: Mouse. Mouse monoclonal antibody raised against a partial recombinant CAND1.

Other Notes	Small volumes of anti-CAND1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAND1. It may not necessarily be applicable to this product.

NCBI GI #	21361794
NCBI GeneID	55832
NCBI Accession #	NP_060918
UniProt Primary Accession #	Q86VP6
UniProt Related Accession #	Q86VP6
GenBank Nucleotide #	NM_018448
NCBI Official Full Name	cullin-associated NEDD8-dissociated protein 1 isoform 1
NCBI Official Synonym Full Names	cullin associated and neddylation dissociated 1
NCBI Official Symbol	CAND1
NCBI Official Synonym Symbols	TIP120; TIP120A
UniProt Protein Name	Cullin-associated NEDD8-dissociated protein 1
UniProt Synonym Protein Names	Cullin-associated and neddylation-dissociated protein 1; TBP-interacting protein of 120 kDa A; TBP-interacting protein 120A; p120 CAND1
Protein Family	Cullin-associated NEDD8-dissociated protein
UniProt Gene Name	CAND1
UniProt Synonym Gene Names	KIAA0829; TIP120; TIP120A; TBP-interacting protein 120A
NCBI Protein Information	cullin-associated NEDD8-dissociated protein 1
NCBI Summary for CAND1	This gene encodes an essential regulator of Cullin-RING ubiquitin ligases, which are in involved in ubiquitinylation of proteins degraded by the Ub proteasome system. The encoded protein binds to unneddylated cullin-RING box protein complexes and acts as an inhibitor of cullin neddylation and of Skp1, cullin, and F box ubiquitin ligase complex assembly and activity. In mammalian cell culture, this protein predominantly localizes to the cytoplasm. Knockdown of this gene in preadipocytes results in blocked adipogenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]
UniProt Comments for CAND1	Key assembly factor of SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complexes that promotes the exchange of the substrate-recognition F-box subunit in SCF complexes, thereby playing a key role in the cellular repertoire of SCF complexes. Acts as a F-box protein exchange factor. The exchange activity of CAND1 is coupled with cycles of neddylation conjugation: in the deneddylated state, cullin-binding CAND1 binds CUL1-RBX1, increasing dissociation of the SCF complex and promoting exchange of the F-box protein. Probably plays a similar role in other cullin-RING E3 ubiquitin ligase complexes.
Research Articles on CAND1	**1.** miR-33a and CAND1 played an important role in lung cancer proliferation and cell migration
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