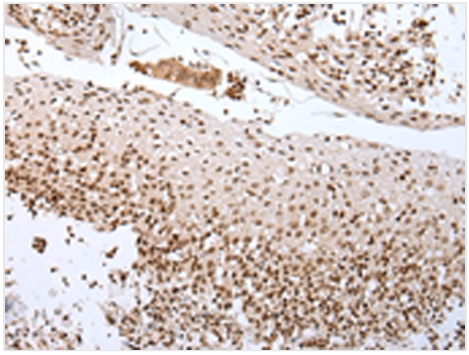
CUL1 Antibody – Rabbit Polyclonal

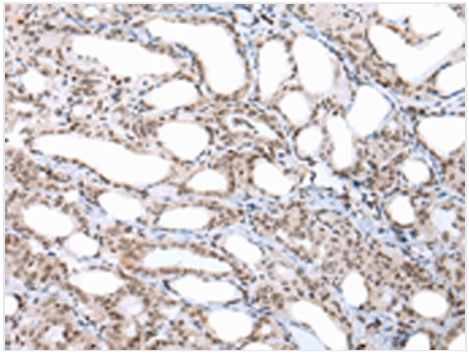
PRODUCT OVERVIEW

Product Name	CUL1, Polyclonal Antibody
Full Product Name	CUL1 Antibody
Product Gene Name	anti-CUL1 antibody
Product Synonym Names	CUL-1; CUL1; cullin 1; Cullin-1; MGC149834; MGC149835
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen Affinity Purification
Concentration	1.2 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total CUL1 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	89,679 Da
OMIM	603134
3D Structure	ModBase 3D Structure for Q13616
Immunogen	Synthetic peptide of human CUL1
Immunogen Type	Peptide
Product Categories/Family for anti-CUL1 antibody	Total protein Ab
Applications Tested/Suitable for anti-CUL1 antibody	Immunohistochemistry (IHC)
Application Notes for anti-CUL1 antibody	Immunohistochemistry: 1:40-1:150

Related Product Information for anti-CUL1 antibody	Core component of multiple cullin-RING-based SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. In the SCF complex, serves as a rigid scaffold that organizes the SKP1-F-box protein and RBX1 subunits. May contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme.The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and exchange of the substrate recognition component is mediated by TIP120A/CAND1. The functional specificity of the SCF complex depends on the F-box protein as substrate recognition component. SCF(BTRC) and SCF(FBXW11) direct ubiquitination of CTNNB1 and participate in Wnt signaling. SCF(FBXW11) directs ubiquitination of phosphorylated NFKBIA. SCF(BTRC) directs ubiquitination of NFKBIB, NFKBIE, ATF4, SMAD3, SMAD4, CDC25A, FBXO5 and probably NFKB2. SCF(SKP2) directs ubiquitination of phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. SCF(SKP2) directs ubiquitination of ORC1, CDT1, RBL2, ELF4, CDKN1A, RAG2, FOXO1A, and probably MYC and TAL1. SCF(FBXW7) directs ubiquitination of cyclin E, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1. SCF(FBXW2) directs ubiquitination of GCM1. SCF(FBXO32) directs ubiquitination of MYOD1. SCF(FBXO7) directs ubiquitination of BIRC2 and DLGAP5. SCF(FBXO33) directs ubiquitination of YBX1. SCF(FBXO1) directs ubiquitination of BCL6 and DTL but does not seem to direct ubiquitination of TP53. SCF(BTRC) mediates the ubiquitination of NFKBIA at 'Lys-21' and 'Lys-22'; the degradation frees the associated NFKB1-RELA dimer to translocate into the nucleus and to activate transcription. SCF(CCNF) directs ubiquitination of CCP110. SCF(FBXL3) and SCF(FBXL21) direct ubiquitination of CRY1 and CRY2. SCF(FBXO9) direct ubiquitination of TTI1 and TELO2. SCF(FBXO10) directs ubiquitination of BCL2.
Other Notes	Small volumes of anti-CUL1 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.
Searchable Terms for CUL1 purchase	MBS9415779 is an antibody targeting CUL1. Also known as CUL1 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-CUL1 antibody
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue using at dilution 1/20.



Immunohistochemistry (IHC) of anti-CUL1 antibody
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using at dilution 1/20.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CUL1. It may not necessarily be applicable to this product.

NCBI GI #	32307161
NCBI GeneID	8454
NCBI Accession #	NP_003583.2
UniProt Primary Accession #	Q13616
UniProt Secondary Accession #	O60719; Q08AL6; Q8IYW1; D3DWG3
UniProt Related Accession #	Q13616
GenBank Nucleotide #	NM_003592.2
NCBI Official Full Name	cullin-1
NCBI Official Synonym Full Names	cullin 1
NCBI Official Symbol	CUL1

UniProt Protein Name	Cullin-1
Protein Family	Cullin
UniProt Gene Name	CUL1
UniProt Synonym Gene Names	CUL-1
UniProt Entry Name	CUL1_HUMAN
NCBI Protein Information	cullin-1
UniProt Comments for CUL1	CUL1: a core scaffolding component of multiple cullin-RING-based SCF (SKP1- CUL1-F-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination of proteins involved in cell cycle progression, signal transduction and transcription. The cullin subunit serves as a rigid scaffold of SCF complexes. May contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex depends on the neddylation of the cullin subunit. Interacts with multiple F-box proteins in SCF complexes, directing the ubiquitination of many substrates. These F-box proteins and associated substrates include: BTRC and FBXW11 bind CTNNB1 and participate in Wnt signaling; FBXW11 bind phosphorylated NFKBIA; BTRC binds NFKBIB, NFKBIE, ATF4, SMAD3, SMAD4, CDC25A, FBXO5 and probably NFKB2; SKP2 binds phosphorylated p27kip and is involved in regulation of G1/S transition; SKP2 binds ORC1, CDT1, RBL2, ELF4, CDKN1A, RAG2, FOXO1A, and probably MYC and TAL1; FBXW7 binds cyclin E, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1; FBXW2 binds GCM1; FBXO32 binds MYOD1; FBXO7 binds BIRC2 and DLGAP5; FBXO33 binds YBX1; and Cyclin F binds CP110. Interacts with CHEK2, mediating its ubiquitination and regulating its function. Belongs to the cullin family. Protein type: Cell cycle regulation; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 7q36.1 Cellular Component: cullin-RING ubiquitin ligase complex; cytosol; nucleoplasm; SCF ubiquitin ligase complex Molecular Function: protein binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity Biological Process: cell cycle arrest; G1/S transition of mitotic cell cycle; G2/M transition of mitotic cell cycle; negative regulation of cell proliferation; positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; proteasomal ubiquitin-dependent protein catabolic process; protein polyubiquitination; protein ubiquitination; protein ubiquitination during ubiquitin-dependent protein catabolic process; SCF-dependent proteasomal ubiquitin-dependent protein catabolic process; stimulatory C-type lectin receptor signaling pathway; stress-activated MAPK cascade; T cell receptor signaling pathway; Wnt receptor signaling pathway
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