

Product datasheet for **TA302188S**

CUL4A Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Human (Predicted: Mouse)
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This Cullin 4A (CUL4A) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 102-131 amino acids from the N-terminal region of human Cullin 4A (CUL4A).
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Concentration:	lot specific
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	87680 Da
Gene Name:	cullin 4A
Database Link:	NP_001008895 Entrez Gene 99375 Mouse Entrez Gene 8451 Human Q13619



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Background:

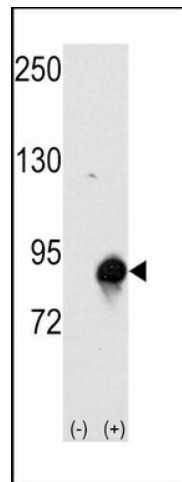
CUL4a is a core component of multiple cullin-RING-based E3 ubiquitin-protein ligase complexes which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The E3 ubiquitin-protein ligase activity of the complex is dependent on the neddylation of the cullin subunit and is inhibited by the association of the deneddylated cullin subunit with TIP120A/CAND1. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition component. DCX(DET1-COP1) directs ubiquitination of JUN. DCX(DDB2) directs ubiquitination of XPC. In association with RBX1, DDB1 and DDB2 is required for histone H3 and histone H4 ubiquitination in response to ultraviolet and may be important for subsequent DNA repair. DCX(DTL) plays a role in PCNA-dependent polyubiquitination of CDT1 and MDM2-dependent ubiquitination of TP53 in response to radiation-induced DNA damage and during DNA replication. In association with DDB1 and SKP2 probably is involved in ubiquitination of CDKN1B/p27kip. Is involved in ubiquitination of HOXA9.

Synonyms:

cullin 4A; OTTHUMP00000018753; OTTHUMP00000018754

Protein Pathways:

Nucleotide excision repair, Ubiquitin mediated proteolysis

Product images:

Western blot analysis of CUL4a (arrow) using rabbit polyclonal CUL4a Antibody (Human N-term) (Cat.#[TA302188]).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CUL4a gene (Lane 2) (Origene Technologies).