

Rabbit CUL4A Polyclonal Antibody | anti-CUL4A antibody

Phospho-CUL4A (Ser40) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328241	Rabbit	Human, Mouse, Rat Predicted: Pig, Rabbit, Dog	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CUL4A; Polyclonal Antibody; Phospho-CUL4A (Ser40) Antibody; 2810470J21Rik; AW495282; CUL 4A; CUL-4A; Cul4a; Cul4a protein; CUL4A_HUMAN; Cullin-4A; MGC36573; MGC64071; anti-CUL4A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-CUL4A(Ser40) Antibody detects endogenous levels of CUL4A only when phosphorylated at Ser40.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	759
Applicable Applications for anti-CUL4A antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CUL4A around the phosphorylation site of Ser40.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-CUL4A(Ser40) in lysates of HeLa?, using Phospho-CUL4A(Ser40) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining rat heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



IHC (Immunohistochemistry)

At 1/100 staining human heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-CUL4A antibody

Description: Core component of multiple cullin-RING-based E3 ubiquitin-protein ligase complexes which mediate the ubiquitination 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. DCX(DDB2) ubiquitinates histones H3-H4 and is required for efficient histone deposition during replication-coupled (H3.1) and replication-independent (H3.3) nucleosome assembly, probably by facilitating the transfer of H3 from ASF1A/ASF1B to other chaperones involved in histone deposition. 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. DCX(DTL) directs autoubiquitination of DTL.

Post Translational Modifications: Neddylated. Deneddylated via its interaction with the COP9 signalosome (CSN) complex.(Microbial infection) Deneddylated by Epstein-Barr virus BPLF1 leading to a S-phase-like environment that is required for efficient replication of the viral genome.

Subunit Structure: Component of multiple DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complexes that seem to consist of DDB1, CUL4A or CUL4B, RBX1 and a variable substrate recognition component which seems to belong to a protein family described as DCAF (Ddb1- and Cul4-associated factor) or CDW (CUL4-DDB1-associated WD40-repeat) proteins. Component of the CSA complex (DCX(ERCC8) complex) containing ERCC8, RBX1, DDB1 and CUL4A; the CSA complex interacts with RNA polymerase II; upon UV irradiation it interacts with the COP9 signalosome and preferentially with the hyperphosphorylated form of RNA polymerase II. Component of the DCX(DET1-COP1) complex with the substrate recognition component DET1 and COP1. Component of the DCX(DDB2) complex with the substrate recognition component DDB2. Component of the DCX(DTL) complex with the putative substrate recognition component DTL. Interacts with DDB1, RBX1, RNF7, CTD1, TIP120A/CAND1, SKP2, CDKN1B, MDM2, TP53 and HOXA9. Interacts with DDB2; the interactions with DDB2 and CAND1 are mutually exclusive. Interacts with DCAF1, DTL, DDA1, DCAF6, DCAF4, DCAF16, DCAF17, DET1, WDTC1, DCAF5, DCAF11, WDR24A, COP1, PAFAH1B1, ERCC8, GRWD1, FBXW5, RBBP7, GNB2, WSB1, WSB2, NUP43, PWP1, FBXW8, ATG16L1, KATNB1, RBBP4, RBBP5, LRWD1 and DCAF8. May interact with WDR26, WDR51B, SNRNP40, WDR61, WDR76, WDR5. Can self-associate. Interacts (when neddylated) with ARIH1; leading to activate the E3 ligase activity of ARIH1 (PubMed:24076655).

Similarity: Belongs to the cullin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	108936013
NCBI GeneID	8451
UniProt Accession #	Q13619
Molecular Weight	Observed: 88 kDa Predicted: 88 kDa
NCBI Official Full Name	Cullin-4A
NCBI Official Synonym Full Names	cullin 4A

NCBI Official Symbol	CUL4A
NCBI Protein Information	cullin-4A
UniProt Protein Name	Cullin-4A
UniProt Gene Name	CUL4A
UniProt Synonym Gene Names	CUL-4A
UniProt Entry Name	CUL4A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cul4a-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328241>