

Rabbit CUL4B Polyclonal Antibody | anti-CUL4B antibody

Phospho-CUL4B (Thr48) Antibody

CATALOG # AAA328269	HOST Rabbit	REACTIVITY Human Predicted: Pig, Bovine, Sheep, Rabbit, Dog	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

CUL4B; Polyclonal Antibody; Phospho-CUL4B (Thr48) Antibody; CUL 4B; CUL-4B; CUL4B_HUMAN; Cullin-4B; DKFZp686F1470; KIAA0695; MRXHF2; MRXSC; SFM2; anti-CUL4B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted: Pig, Bovine, Sheep, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-CUL4B(Thr48) Antibody detects endogenous levels of CUL4B only when phosphorylated at Thr48.
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	913
Applicable Applications for anti-CUL4B antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CUL4B around the phosphorylation site of Thr48.
Subcellular Location	Nucleus
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-CUL4B(Thr48) in lysates of 293T?, using Phospho-CUL4B(Thr48) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining human 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

ADDITIONAL INFORMATION

Related Product Information for anti-CUL4B antibody

Description: Core component of multiple cullin-RING-based E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition subunit. CUL4B may act within the complex as a scaffold protein, contributing to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. Plays a role as part of the E3 ubiquitin-protein ligase complex in polyubiquitination of CDT1, histone H2A, histone H3 and histone H4 in response to radiation-induced DNA damage. Targeted to UV damaged chromatin by DDB2 and may be important for DNA repair and DNA replication. Required for ubiquitination of cyclin E, and consequently, normal G1 cell cycle progression. Regulates the mammalian target-of-rapamycin (mTOR) pathway involved in control of cell growth, size and metabolism. Specific CUL4B regulation of the mTORC1-mediated pathway is dependent upon 26S proteasome function and requires interaction between CUL4B and MLST8.

Post Translational Modifications: Neddylated. Deneddylated via its interaction with the COP9 signalosome (CSN) complex.

Subunit Structure: Component of multiple DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complexes that seem to be formed 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 DCX(DTL) complex with the putative substrate recognition component DTL. Component of the DCX(DDB2) complex with the putative substrate recognition component DDB2. Part of a complex with RBX1 and TIP120A/CAND1. Interacts with RBX1 GRWD1, MLST8, SMU1, TLE2, TLE3, DCAF1, DDA1, DCAF6, DCAF17, DDB2, DCAF8, TIP120A/CAND1 and TMEM113. Interacts with cyclin E and with importins alpha-1 (KPNA2), alpha-3 (KPNA4), alpha-5 (KPNA1) and beta-1 (KPNB1). May interact with WDR26, WDR51B, SNRNP40, WDR61, WDR76 and WDR5.

Similarity: Belongs to the cullin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296439468
NCBI GeneID	8450
UniProt Accession #	Q13620
Molecular Weight	Observed: 99 kDa Predicted: 104 kDa
NCBI Official Full Name	Cullin-4B
NCBI Official Synonym Full Names	cullin 4B
NCBI Official Symbol	CUL4B
NCBI Official Synonym Symbols	SFM2; MRXSC; CUL-4B; MRXHF2; MRXS15
NCBI Protein Information	cullin-4B
UniProt Protein Name	Cullin-4B
UniProt Gene Name	CUL4B
UniProt Synonym Gene Names	KIAA0695; CUL-4B
UniProt Entry Name	CUL4B_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/cul4b-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328269>