

Product Name: Cullin 4A/4B Rabbit Monoclonal Antibody
Catalog #: AMRe01865

Summary

Production Name	Cullin 4A/4B Rabbit Monoclonal Antibody
Description	Recombinant Rabbit Monoclonal antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Hamster,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal Antibody
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Purification	Affinity Purified

Immunogen

Gene Name	CUL4B
Alternative Names	CUL4B; KIAA0695; Cullin-4B; CUL-4B
Gene ID	8450
SwissProt ID	Q13620

Application

Dilution Ratio	WB: 1/500-1/1000 IHC: 1/50-1/100
Molecular Weight	Calculated MW: 104 kDa; Observed MW: 88,104 kDa

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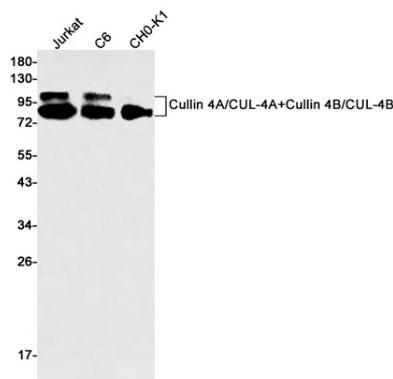
Background

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.

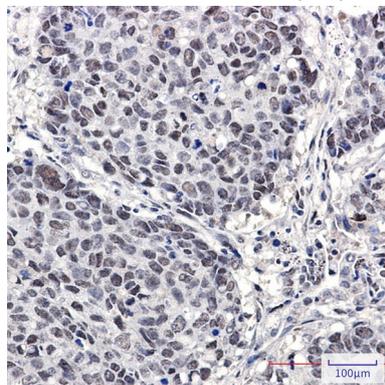
Research Area

Cell Biology

Image Data



Western blot analysis of Cullin 4A/CUL4A+Cullin 4B/CUL4B in Jurkat, C6, CHO-K1 lysates using Cullin 4A/4B antibody.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using Cullin 4A/B antibody. High-pressure and

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temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Note

For research use only.