

Datasheet for ABIN1881241
anti-Cullin 4B antibody (AA 250-278)



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Overview

Quantity:	400 µL
Target:	Cullin 4B (CUL4B)
Binding Specificity:	AA 250-278
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cullin 4B antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This CUL4B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 250-278 amino acids from the Central region of human CUL4B.
Clone:	RB42521
Isotype:	Ig Fraction
Predicted Reactivity:	M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	Cullin 4B (CUL4B)
Alternative Name:	CUL4B (CUL4B Products)

Target Details

Background: This gene is a member of the cullin family. The encoded protein forms a complex that functions as an E3 ubiquitin ligase and catalyzes the polyubiquitination of specific protein substrates in the cell. The protein interacts with a ring finger protein, and is required for the proteolysis of several regulators of DNA replication including chromatin licensing and DNA replication factor 1 and cyclin E. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

Molecular Weight: 103982

NCBI Accession: [NP_001073341](#), [NP_003579](#)

UniProt: [Q13620](#)

Application Details

Application Notes: WB: 1:1000. WB: 1:2000

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Expiry Date: 6 months

Publications

Product cited in: Aggarwal, Vaites, Kim, Mellert, Gurung, Nakagawa, Herlyn, Hua, Rustgi, McMahon, Diehl: " Nuclear cyclin D1/CDK4 kinase regulates CUL4 expression and triggers neoplastic growth via activation of the PRMT5 methyltransferase." in: **Cancer cell**, Vol. 18, Issue 4, pp. 329-40, (2010) ([PubMed](#)).

Kerzendorfer, Whibley, Carpenter, Outwin, Chiang, Turner, Schwartz, El-Khamisy, Raymond, ODriscoll: "Mutations in Cullin 4B result in a human syndrome associated with increased

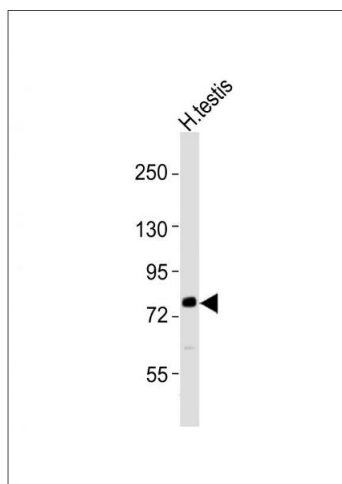
camptothecin-induced topoisomerase I-dependent DNA breaks." in: **Human molecular genetics**, Vol. 19, Issue 7, pp. 1324-34, (2010) ([PubMed](#)).

Gascoin-Lachambre, Buffat, Rebourcet, Chelbi, Rigourd, Mondon, Mignot, Legras, Simeoni, Vaiman, Barbaux: "Cullins in human intra-uterine growth restriction: expressional and epigenetic alterations." in: **Placenta**, Vol. 31, Issue 2, pp. 151-7, (2010) ([PubMed](#)).

Badura-Stronka, Jamsheer, Materna-Kirylyuk, Sowińska, Kirylyuk, Budny, Latos-Bieleńska: "A novel nonsense mutation in CUL4B gene in three brothers with X-linked mental retardation syndrome." in: **Clinical genetics**, Vol. 77, Issue 2, pp. 141-4, (2010) ([PubMed](#)).

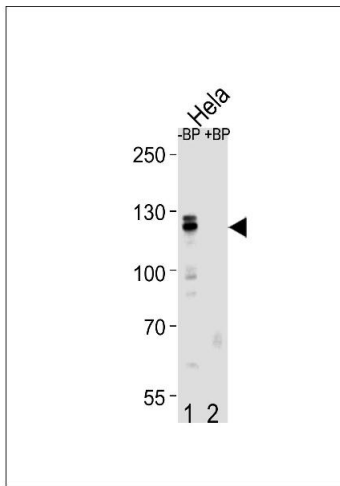
Abbas, Shibata, Park, Jha, Karnani, Dutta: "CRL4(Cdt2) regulates cell proliferation and histone gene expression by targeting PR-Set7/Set8 for degradation." in: **Molecular cell**, Vol. 40, Issue 1, pp. 9-21, (2010) ([PubMed](#)).

Images



Western Blotting

Image 1. Anti-CUL4B Antibody (Center) at 1:2000 dilution + human testis lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 104 kDa Blocking/Dilution buffer: 5 % NFDm/TBST.



Western Blotting

Image 2. Western blot analysis of CUL4B Antibody (Center) Pab (ABIN1881241 and ABIN2839068) pre-incubated without (lane 1) and with (lane 2) blocking peptide in HeLa cell line lysate. CUL4B Antibody (Center) (arrow) was detected using the purified Pab.