

Datasheet for ABIN968173
anti-Cullin 2 antibody (AA 18-182)

4 Images

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Overview

Quantity:	50 µg
Target:	Cullin 2 (CUL2)
Binding Specificity:	AA 18-182
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cullin 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human CUL-2 aa. 18-182
Clone:	4-CUL
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	Cullin 2 (CUL2)
Alternative Name:	CUL-2 (CUL2 Products)
Background:	<p>The cullins are a family of proteins that are integral to cell cycle regulation. Members of this family include human Cul-2, C.elegans Ce-Cul-1, and S. cerevisiae Cdc53. Proper control of cell cycle progression is essential for the prevention of tumorigenesis. Mutant forms of both Ce-Cul-1 and Cdc53 have been implicated in the oncogenic process. Abnormal nuclear localization of Cul-2 is seen in a rare hereditary condition known as VHL (von Hippel-Lindau) syndrome. Patients with VHL syndrome possess a mutant VHL gene and develop cancers such as retinal anginomas, CNS hemangioblastomas, and renal cell carcinomas. In normal cells, the VHL protein competes with subunit A of elongin, a transcription elongation factor, for binding to subunits B and C. The formation of the VHL-B-C complex inhibits elongation. Additional data indicates that this complex associates with CUL-2 and promotes CUL-2 nuclear translocation. In cells with mutated VHL, transcriptional elongation is not efficiently curtailed and CUL-2 is not properly localized in the nucleus. Therefore, CUL-2 mediates VHL function, suggesting CUL-2 may be a candidate human tumor suppressor. This antibody is routinely tested by western blot analysis.</p> <p>Synonyms: Cullin-2</p>
Molecular Weight:	76 kDa
Pathways:	M Phase , Asymmetric Protein Localization , SARS-CoV-2 Protein Interactome

Application Details

Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Handling

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:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:	<p>Saitoh, Pizzi, Wang: "Perturbation of SUMOlation enzyme Ubc9 by distinct domain within nucleoporin RanBP2/Nup358." in: The Journal of biological chemistry, Vol. 277, Issue 7, pp. 4755-63, (2002) (PubMed).</p> <p>Pause, Lee, Worrell, Chen, Burgess, Linehan, Klausner: "The von Hippel-Lindau tumor-suppressor gene product forms a stable complex with human CUL-2, a member of the Cdc53 family of proteins." in: Proceedings of the National Academy of Sciences of the United States of America, Vol. 94, Issue 6, pp. 2156-61, (1997) (PubMed).</p>
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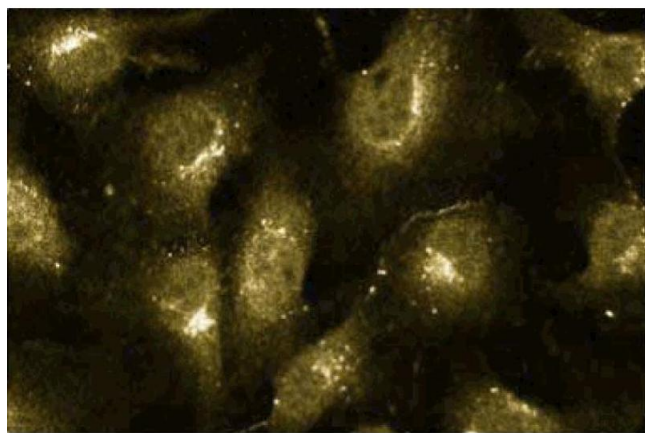
Images





Western Blotting

Image 2. Western blot analysis of CUL-2 on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti- CUL-2 antibody.



Immunofluorescence

Image 3. Immunofluorescence staining of human endothelial cells.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968173.