

Datasheet for ABIN968679
anti-Cullin 3 antibody (AA 565-684)[Go to Product page](#)

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Overview

Quantity:	50 µg
Target:	Cullin 3 (CUL3)
Binding Specificity:	AA 565-684
Reactivity:	Human, Mouse, Rat, Chicken, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cullin 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human CUL-3 aa. 565-684
Clone:	3-CUL
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine), Chicken
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.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	Cullin 3 (CUL3)
Alternative Name:	CUL-3 (CUL3 Products)
Background:	<p>The cullins are a family of proteins that are integral to cell cycle regulation. Members of this family include human Cul proteins, 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. The human Cul family of proteins, Cul-1, -2, -3, -4A, -4B, and -5, have also been implicated in oncogenic processes. 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. Cul-3 is widely expressed in normal cells and tissues, and shows increased expression in colon cancer cells. Cul-3 can associate with cyclin E in mammalian cells, and overexpression of Cul-3 targets cyclin E for ubiquination, while deletion of Cul-3 in mice leads to increased cyclin E accumulation and abnormal regulation of S-phase. Thus, the Cul family of proteins may have roles in cell cycle regulation and tumorigenesis. This antibody is routinely tested by western blot analysis.</p>
Molecular Weight:	89 kDa
Pathways:	M Phase

Application Details

Comment:	Related Products: ABIN968545, 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.
Preservative:	Sodium azide

Handling

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: Hori, Osaka, Chiba, Miyamoto, Okabayashi, Shimbara, Kato, Tanaka: "Covalent modification of all members of human cullin family proteins by NEDD8." in: **Oncogene**, Vol. 18, Issue 48, pp. 6829-34, (2000) ([PubMed](#)).

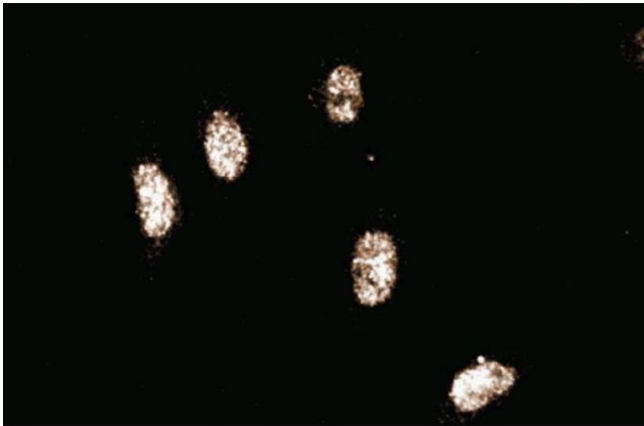
Singer, Gurian-West, Clurman, Roberts: "Cullin-3 targets cyclin E for ubiquitination and controls S phase in mammalian cells." in: **Genes & development**, Vol. 13, Issue 18, pp. 2375-87, (1999) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of CUL-3 on a rat cerebrum lysate. Lane 1: 1:10,000, lane 2: 1:20,000, lane 3: 1:40,000 dilution of the mouse anti- CUL-3 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of human endothelial cells.



Western Blotting

Image 3.