

Technical Data Sheet

Purified Mouse Anti- CUL-3

Product Information

Material Number:	611848
Size:	50 µg
Concentration:	250 µg/ml
Clone:	3/CUL-3
Immunogen:	Human CUL-3 aa. 565-684
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Mouse, Human, Chicken, Dog
Target MW:	89 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

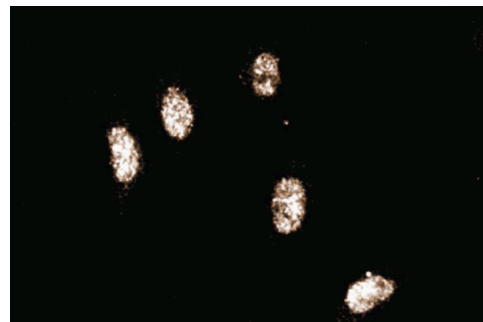
Description

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 ubiquitination, 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. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



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 staining of human endothelial cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols 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.

References

Hori T, Osaka F, Chiba T. Covalent modification of all members of human cullin family proteins by NEDD8. *Oncogene*. 1999; 18(48):6829-6834.(Biology)
Hori T, Osaka F, Chiba T, et al. Covalent modification of all members of human cullin family proteins by NEDD8. *Oncogene*. 1999; 18(48):6829-6834.(Biology)
Singer JD, Gurian-West M, Clurman B, Roberts JM. Cullin-3 targets cyclin E for ubiquitination and controls S phase in mammalian cells. *Genes Dev*. 1999; 13(18):2375-2387.(Biology)