

Technical Data Sheet

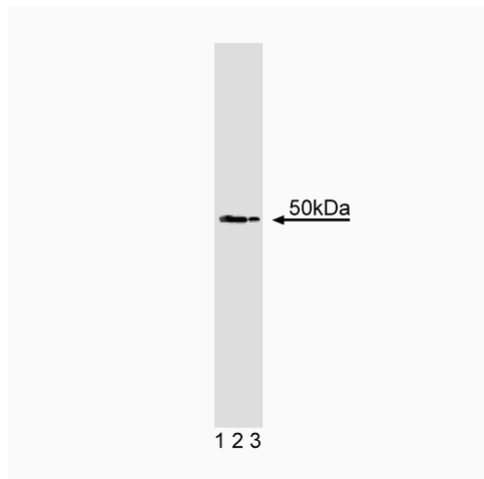
Purified Mouse Anti-CDC37

Product Information

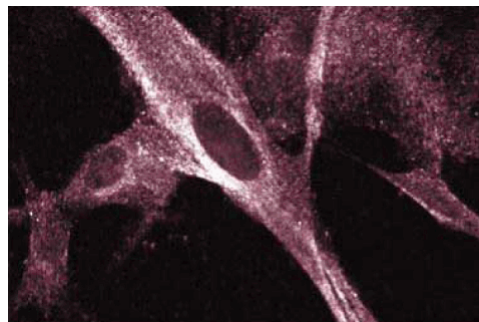
Material Number:	610576
Size:	50 µg
Concentration:	250 µg/ml
Clone:	15/Cdc37
Immunogen:	Human CDC37 aa. 1-163
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog, Rat, Mouse
Target MW:	50 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Progression through the cell cycle is determined by numerous extracellular factors that convey their messages to the cyclin-dependent kinases (cdk). Cdks are regulated by factors such as the availability of cyclins, inhibitors like Cip1 and Kip1, and phosphatases. CDC37 (50kDa), a regulator of the cell cycle, targets Cdk4. CDC37 was identified in a complex with pp60v-src and Raf-1. In vitro assays revealed CDC37 as a subunit of Hsp90 which associates with Cdk4. The overall result of this binding appears to be a shorter half-life of Cdk4.



Western blot analysis of CDC37 on human endothelial lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of CDC37.



WI38

Preparation and Storage

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

Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

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Product Notices

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

- Grammatikakis N, Lin JH, Grammatikakis A, Tsihchis PN, Cochran BH. p50(cdc37) acting in concert with Hsp90 is required for Raf-1 function. *Mol Cell Biol.* 1999; 19(3):1661-1672.(Clone-specific: Western blot)
- Lange BM, Rebollo E, Herold A, Gonzalez C. Cdc37 is essential for chromosome segregation and cytokinesis in higher eukaryotes. *EMBO J.* 2002; 21(20):5364-5374.(Clone-specific: Immunofluorescence, Western blot)
- Stepanova L, Leng X, Parker SB, Harper JW. Mammalian p50Cdc37 is a protein kinase-targeting subunit of Hsp90 that binds and stabilizes Cdk4. *Genes Dev.* 1996; 10(12):1491-1502.(Biology)