

CDC27

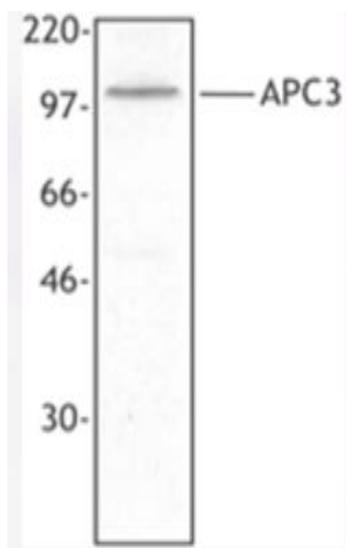
Rabbit Anti-Human Cell Division Cycle 27 homolog/Anaphase Promoting Complex subunit 3 Clone Poly6109 pAb

Catalog No.	CS114533 CS114534	Quantity:	50 µl 200 µl
Alternate Names:	APC3, CDC27Hs, D0S1430E, D17S978E, HNUC, anaphase-promoting complex, protein 3, cell division cycle protein 27, nuc2 homolog		
Description:	APC3 (anaphase-promoting complex subunit 3) is a member of the E3 enzyme family. This protein contains TPR repeats and has a molecular weight of approximately 95 kD. The APC3 protein is located at the spindle poles, the spindle microtubules, kinetochores and chromosome arms. This protein is required for core stability and functions as a multisubunit cell cycle ubiquitin ligase, and a regulator of sister chromatid separation by degrading securins. In addition, this protein functions in ubiquitin-dependent cyclin catabolism, metaphase/anaphase transition, and spindle elongation. The APC3 protein comprises one subunit of the anaphase promoting complex including APC1-8, and other probable complex proteins APC9-11, Cdc26, Mnd2, Swm1. The APC complex is inactivated by protein kinase A and is activated by CDC20 and Cdh1. The APC3 protein interacts with Rb, Mad2, p55CDC, BUBR1, as well as the APC complex proteins noted above. The APC3 protein can be modified by phosphorylation by cdk1-cyclin B. The Poly6109 antibody has been shown to be useful for Western blotting of the human APC3 protein.		
Structure:	E3 enzyme family, TPR repeats; 95 kD.		
Gene ID:	996		
Distribution:	Spindle poles, spindle microtubules, kinetochores, chromosome arms.		
Function:	Required for core stability, multisubunit cell cycle ubiquitin ligase. Regulates sister chromatid separation by degrading securins. Involved in ubiquitin-dependent cyclin catabolism, metaphase/anaphase transition, spindle elongation.		
Host:	Rabbit		
Immunogen:	Recombinant (partial), N-terminal		
Isotype:	IgG		
Clone:	Poly6109		
Regulation:	Complex inactivated by protein kinase A (PKA) pathway. Activated by CDC20 and Cdh1.		
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		

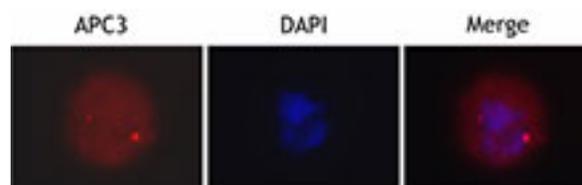


- Purification:** The antibody was purified by antigen-affinity chromatography.
- Modification:** Phosphorylation by cdk1-cyclin B
- Reactivity:** Mouse, Human
- Applications:** WB, IF
- Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.
- Storage & Stability:** Upon receipt, store frozen at -20° C.
- Interaction:** RB, Mad2, p55CDC, BUBR1, anaphase promoting complex composed of eight protein subunits APC1-8, APC9-11, Cdc26, Mnd2, and Swm1.

Jurkat cell extract was resolved by electrophoresis, transferred to nitrocellulose and probed with rabbit polyclonal antibody against APC3. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.



Overnight nocodazole treated Hela cells stained with purified rabbit polyclonal antibody against APC3, followed by Rhodamine Red-X conjugated goat anti-rabbit IgG and DAPI.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

