

ANAPC1

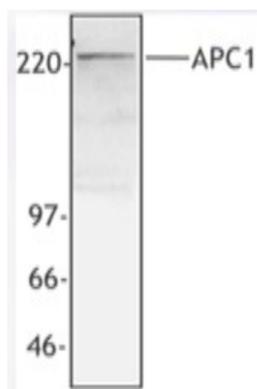
Rabbit Anti-Human Anaphase Promoting Complex subunit 1 Clone Poly6107 pAb

Catalog No.	CSI14529 CSI14530	Quantity:	50 µl 200 µl
Alternate Names:	APC1, MCPR, TSG24, anaphase-promoting complex 1 (meiotic checkpoint regulator)		
Description:	APC1 (anaphase-promoting complex subunit 1) is a meiotic checkpoint regulator that is a member of the E3 enzyme family. This protein contains Rpn1/2 repeats and has a molecular weight of approximately 216 kD. The APC1 protein is located in the nucleus during interphase, and at the centrosome during metaphase/anaphase. This protein comprises one subunit of the anaphase promoting complex including APC1-8, and other probable complex proteins APC9-11, Cdc26, Mnd2, Swm1. The APC1 protein functions as a probable scaffold for complex assembly, 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 APC complex is inactivated by protein kinase A and is activated by CDC20 and Cdh1. The APC1 protein is phosphorylated by Cdk1-cyclin B and can also be ubiquitinated and targeted for degradation. The Poly6107 antibody has been shown to be useful for Western blotting of the human APC1 protein.		
Structure:	E3 enzyme family, Rpn1/2 repeats; 216 kD.		
Gene ID:	64682		
Distribution:	Nuclear during interphase, centrosome during metaphase/anaphase.		
Function:	Probable scaffold for complex assembly, 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:	Poly6107		
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, Ubiquitination
- Reactivity:** Human
- Applications:** WB - Quality tested
- 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.

Jurkat nuclear extract was resolved by electrophoresis, transferred to nitrocellulose and probed with anti-APC1 antibody. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system



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