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ACD antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14267

Product Information

Application	WB
Primary Accession	Q96AP0
Other Accession	NM_001082486, NP_001075955
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48967

Additional Information

Gene ID	65057
Alias Symbol	PIP1, PTOP, TINT1, TPP1
Other Names	Adrenocortical dysplasia protein homolog, POT1 and TIN2-interacting protein, ACD, PIP1, PTOP, TINT1, TPP1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-ACD antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	ACD antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

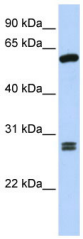
Name	ACD (HGNC:25070)
Function	Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and protects chromosome ends. Without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways. Promotes binding of POT1 to single-stranded telomeric DNA. Modulates the inhibitory effects of POT1 on telomere elongation. The ACD-POT1 heterodimer enhances telomere elongation by recruiting telomerase to telomeres and increasing its processivity. May play a role in organogenesis.

Cellular Location Nucleus. Chromosome, telomere

References

Liu D.,et al.Nat. Cell Biol. 6:673-680(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Martin J.,et al.Nature 432:988-994(2004).
Keegan C.E.,et al.Hum. Mol. Genet. 14:113-123(2005).
Ye J.Z.-S.,et al.Genes Dev. 18:1649-1654(2004).

Images



WB Suggested Anti-ACD Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Human brain

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.