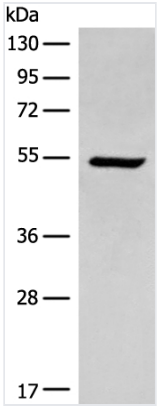
ACD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ACD, Polyclonal Antibody
Full Product Name	ACD Antibody
Product Gene Name	anti-ACD antibody
Product Synonym Names	PIP1; PTOP; TPP1; TINT1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	In pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification
Concentration	1.3mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total ACD protein.
Preparation and Storage	Store at -20 degree C.
Molecular Weight	58 kDa
OMIM	AY502940 mRNA
3D Structure	ModBase 3D Structure for Q96AP0
Immunogen	Synthetic peptide corresponding to internal residues of human ACD
Immunogen Type	Peptide
Product Categories/Family for anti-ACD antibody	Total protein Ab
Applications Tested/Suitable for anti-ACD antibody	Western Blot (WB)
Application Notes for anti-ACD antibody	WB: 1:500-1:2000
Related Product Information for anti-ACD antibody	This gene encodes a protein that is involved in telomere function. This protein is one of six core proteins in the telosome/shelterin telomeric complex, which functions to maintain telomere length and to protect telomere ends. Through its interaction with other components, this protein plays a key role in the assembly and stabilization of this complex, and it mediates the access of telomerase to the telomere. Multiple transcript variants encoding different isoforms have been found for this gene. This gene, which is also referred to as TPP1, is distinct from the unrelated TPP1 gene on chromosome 11, which encodes tripeptidyl-peptidase I.
Other Notes	Small volumes of anti-ACD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ACD purchase	MBS9429451 is an antibody targeting ACD. Also known as ACD Antibody. Reactive in Human, Rat. Host: Rabbit.



SDS-Page of anti-ACD antibody
Gel: 8%SDS-PAGE lysate: 40 ¦Œg, Lane: HEPG2 cell lysate, Primary antibody: 46303£¨ACD Antibody) at dilution 1/400 Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 60 seconds

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ACD. It may not necessarily be applicable to this product.

NCBI GI #	130978956
NCBI GeneID	65057
NCBI Accession #	NP_001075955
UniProt Primary Accession #	Q96AP0
UniProt Secondary Accession #	Q562H5; Q9H8F9
UniProt Related Accession #	Q96AP0
GenBank Nucleotide #	NM_001082486.1
NCBI Official Full Name	adrenocortical dysplasia protein homolog isoform 1
NCBI Official Synonym Full Names	ACD, shelterin complex subunit and telomerase recruitment factor
NCBI Official Symbol	ACD
NCBI Official Synonym Symbols	PIP1; PTOP; TPP1; TINT1
UniProt Protein Name	Adrenocortical dysplasia protein homolog
UniProt Synonym Protein Names	POT1 and TIN2-interacting protein
Protein Family	Adrenocortical dysplasia protein
UniProt Gene Name	ACD
UniProt Synonym Gene Names	PIP1; PTOP; TINT1; TPP1
NCBI Protein Information	adrenocortical dysplasia protein homolog
UniProt Comments for ACD	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.
Research Articles on ACD	**1.** a novel ACD mutation(p.G223V)is detected; ACD is a novel gene involved in childhood pre-B acute lymphoblastic leukemia and may play a functional role in enhancing leukemia cell survival

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