Product Name: **Repo-Man Rabbit Polyclonal Antibody**
Catalog #: **APRab17025**
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000
Molecular Weight	120-130kDa

Antigen Information

Gene Name	CDCA2
Alternative Names	CDCA2; Cell division cycle-associated protein 2; Recruits PP1 onto mitotic chromatin at anaphase protein; Repo-Man
Gene ID	157313.0
SwissProt ID	Q69YH5
Immunogen	The antiserum was produced against synthesized peptide derived from human CDCA2. AA range:511-560

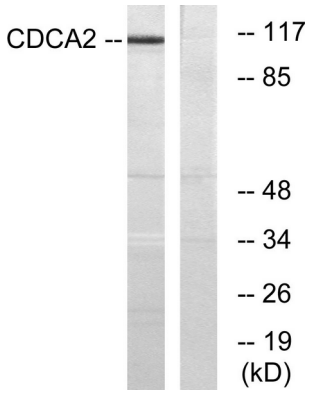
Background

cell division cycle associated 2(CDCA2) Homo sapiens This gene encodes a targeting subunit of the cell-cycle associated protein, protein phosphatase 1, with a role in targeting this protein to chromatin during anaphase. These two proteins comprise a phosphatase complex that is involved in nuclear envelope reformation and regulation of the DNA damage response. The encoded protein may also play a role in cancer progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015],function:Regulator of chromosome structure during mitosis required for condensin-depleted chromosomes to retain their compact architecture through anaphase. Acts by mediating the recruitment of phopsphatase PP1-gamma subunit (PPP1CC) to chromatin at anaphase and into the following interphase. At anaphase onset, its association with chromatin targets a pool of PPP1CC to dephosphorylate substrates.,PTM:Phosphorylated by CDK1. May regulate its subcellular location.,subcellular location:Excluded from the nucleolus. Present in nucleoplasm throughout the G1, S and G2 stages of the cell cycle. During M phase, it becomes diffuse throughout the cell as the nuclear membrane breaks down, and faintly accumulates later on metaphase chromatin. As the cell progresses to anaphase, it accumulates on chromatin.,subunit:Interacts with PPP1CC.,tissue specificity:Ubiquitously expressed.,

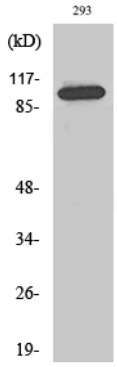
Research Area

Chromatin Modifying Enzymes; Phosphorylation; Cell Biology; Cell Cycle; Cell Division; Other cell division antibodies; Epigenetics and Nuclear Signaling; Chromosome Structure; Chromatin assembly

Image Data



Western blot analysis of lysates from 293 cells, using CDCA2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Repo-Man Polyclonal Antibody diluted at 1： 2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit （SC-003,Inventbiotech,MN,USA）.