

# CDCA5 Polyclonal antibody

Catalog Number: 29316-1-AP

## Basic Information

<b>Catalog Number:</b> 29316-1-AP	<b>GenBank Accession Number:</b> BC011000	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 600 ug/ml	<b>GeneID (NCBI):</b> 113130	<b>Recommended Dilutions:</b> WB 1:2000-1:12000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96FF9	IHC 1:600-1:2400
<b>Isotype:</b> IgG	<b>Full Name:</b> cell division cycle associated 5	IF/ICC 1:200-1:800
<b>Immunogen Catalog Number:</b> AG30966	<b>Calculated MW:</b> 27 kDa	
	<b>Observed MW:</b> 27~35 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA**Species Specificity:**  
human

**Note-IHC:** suggested antigen retrieval with **TE buffer pH 9.0; (\*)** Alternatively, antigen retrieval may be performed with **citrate buffer pH 6.0**

**Positive Controls:****WB :** HeLa cells, K-562 cells, LNCaP cells, U2OS cells**IHC :** human skin cancer tissue,**IF/ICC :** HeLa cells,

## Background Information

Human cell division cycle associated 5 (CDCA5), also known as Sororin, is required for stable binding of cohesin to chromatid in the S and G2/M phases and degraded through anaphase-promoting complex-dependent ubiquitination in the G0/G1 phase (PMID: 30808873). Suppression of CDCA5 expression with siRNAs inhibited the growth of lung cancer cells. CDCA5 positivity is an independent prognostic factor for lung cancer patients (PMID: 20551060). The predicted molecular size of CDCA is 27 kd, with an electrophoretic mobility of ~35 kd on SDS-PAGE, possibly due to its isoelectric point (pI) of approximately 10 (PMID: 22580470).

## Storage

**Storage:**

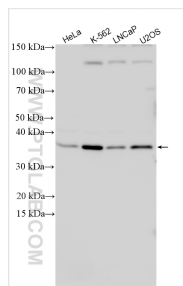
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

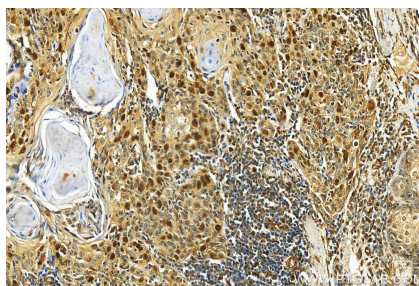
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

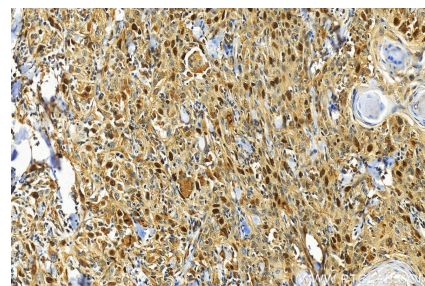
## Selected Validation Data



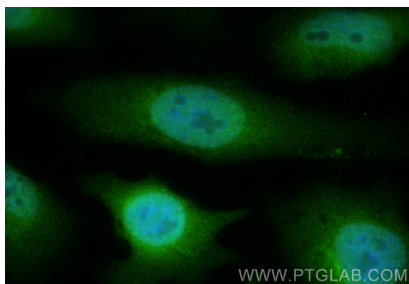
Various lysates were subjected to SDS PAGE followed by western blot with 29316-1-AP (CDCA5 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 29316-1-AP (CDCA5 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDCA5 antibody (29316-1-AP) at dilution of 1:400 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).