

Datasheet for ABIN2855354
anti-CDC25A antibody (N-Term)



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2 Images

Overview

Quantity:	100 µL
Target:	CDC25A
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDC25A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the N-terminus region of human CDC25A. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to CDC25A (cell division cycle 25 homolog A (S. pombe)) CDC25A antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	CDC25A
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Target Details

Alternative Name:	cell division cycle 25A (CDC25A Products)
Background:	CDC25A is a member of the CDC25 family of phosphatases. CDC25A is required for progression from G1 to the S phase of the cell cycle. It activates the cyclin-dependent kinase CDC2 by removing two phosphate groups. CDC25A is specifically degraded in response to DNA damage, which prevents cells with chromosomal abnormalities from progressing through cell division. CDC25A is an oncogene, although its exact role in oncogenesis has not been demonstrated. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	59 kDa
Gene ID:	993
UniProt:	P30304
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases, M Phase

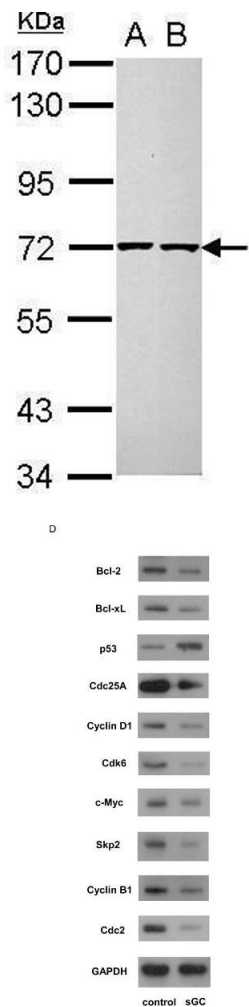
Application Details

Application Notes:	WB: 1:500-1:3000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: H1299 , MCF-7 Validation: Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage

(1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: H1299 B: MCF-7 7.5% SDS PAGE antibody diluted at 1:1000

Western Blotting

Image 2. Over-expression of sGC induced apoptosis and cell cycle arrest.(A) Caspase 3 activity and (B) single-strand DNA detection were examined in MDA-MB-231-control and MDA-MB-231-sGC cells for the cell apoptosis. Results were obtained from 3 and 8 independent experiments, respectively. The error bar represents the standard deviation of the mean. (C) Normalized mRNA levels of PUMA in MDA-MB-231-sGC cells were compared to control cells. Asterisk triple asterisks ** and *** indicated statistically significant difference of p value < 0.01 and p value < 0.001, respectively, between the two groups being compared. (D) Bcl-2, Bcl-xL, p53, Cdc25A, Cyclin D1, Cdk6, c-Myc, Skp2, Cyclin B1, Cdc2 and GAPDH (loading control) proteins in MDA-MB-231-sGC cells were compared to control cells. - figure provided by CiteAb. Source: PMID25928539