

Datasheet for ABIN967980

anti-CDC27 antibody (AA 145-343)



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Overview

Quantity:	50 µg
Target:	CDC27
Binding Specificity:	AA 145-343
Reactivity:	Human, Rat, Mouse, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CDC27 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

Product Details

Immunogen:	Human CDC27 aa. 145-343
Clone:	35-CDC27
Isotype:	IgG2b
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine)
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	CDC27
Alternative Name:	Cdc27 (CDC27 Products)
Background:	CDC16 and CDC27 were discovered in yeast as genes essential for the G2/M transition of the cell cycle. The human homologues of CDC16 and CDC27 were cloned and found to encode proteins of 72kDa and 97kDa, respectively. Biochemical and subcellular localization experiments have shown that CDC16 and CDC27 are novel components of the mitotic spindle centrosome in human cells. In HeLa cells, there are about 100,000 copies of each protein per cell. Although its precise role during mitosis remains to be determined, CDC16 appears to be required for cyclin degradation in yeast. Wild type CDC27 is required for the initiation of anaphase. Immunofluorescence studies have shown that both proteins are components of the centrosome in the absence of spindle fibers.
Molecular Weight:	97 kDa

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

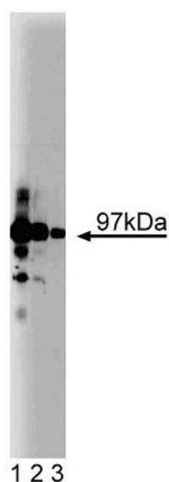
Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

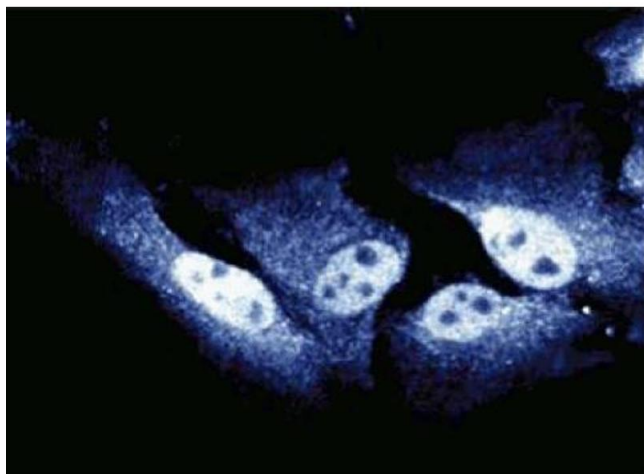
- Product cited in: Saitoh, Pizzi, Wang: "Perturbation of SUMOlation enzyme Ubc9 by distinct domain within nucleoporin RanBP2/Nup358." in: **The Journal of biological chemistry**, Vol. 277, Issue 7, pp. 4755-63, (2002) ([PubMed](#)).
- Kramer, Scheuringer, Podtelejnikov, Mann, Peters: "Mitotic regulation of the APC activator proteins CDC20 and CDH1." in: **Molecular biology of the cell**, Vol. 11, Issue 5, pp. 1555-69, (2000) ([PubMed](#)).
- Tugendreich, Boguski, Seldin, Hieter: "Linking yeast genetics to mammalian genomes: identification and mapping of the human homolog of CDC27 via the expressed sequence tag (EST) data base." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 90, Issue 21, pp. 10031-5, (1993) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of CDC27 on HeLa lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of anti-CDC27.



Immunofluorescence

Image 2. Immunofluorescent staining of HeLa cells.