Datasheet for ABIN6971521

anti-CENPA antibody (pSer16, pSer18)

3 Images

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Overview

Quantity:	100 µL
Target:	CENPA
Binding Specificity:	pSer16, pSer18
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CENPA antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Dot Blot (DB)

Product Details

Immunogen:	This antibody was raised against a synthetic peptide containing phosphorylated serine 16 and 18 of human CENP-A.
Isotype:	IgG
Characteristics:	CENP-A (Centromere Protein A) is a Histone H3-like variant which exclusively replaces conventional H3 in the nucleosome core of centromeric chromatin at the inner plate of the kinetochore. It is required for recruitment and assembly of kinetochore proteins, mitotic progression and chromosome segregation. Recently, phosphorylation of CENP-A on Ser16 and Ser18 was reported and found to be important for chromosome segregation during mitosis. CENP-A phospho Ser18 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Dot blot, Immunocytochemistry, Immunofluorescence and Western blot, it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types.

Product Details

Purification:	Affinity Purified

Target Details

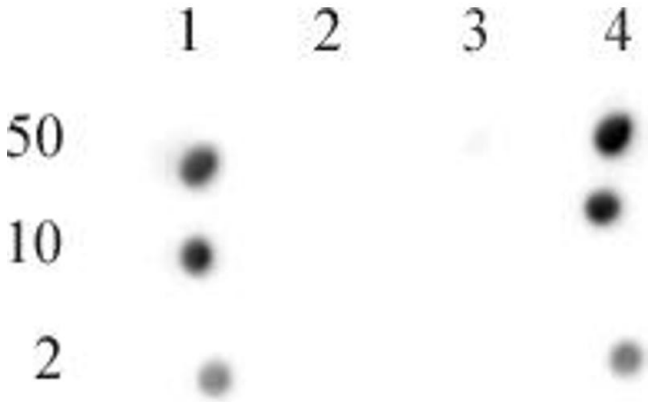
Target:	CENPA
Alternative Name:	CENP-A (CENPA Products)
Molecular Weight:	16 kDa
NCBI Accession:	NP_001800
Pathways:	Chromatin Binding, Maintenance of Protein Location

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

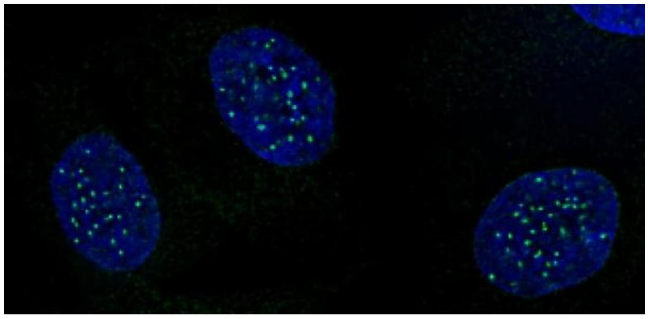
Handling

Buffer:	Purified IgG in PBS with 30 % glycerol and 0.035 % 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:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



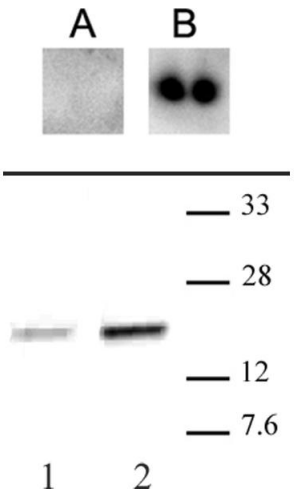
Dot Blot

Image 1. CENP-A phospho Ser18 antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of CENP-A phospho Ser18 antibody. Peptides corresponding to the immunogen and related proteins were spotted onto PVDF and probed with the antibody at 1:750. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: CENP-A phospho Ser 16 and phospho Ser18. Lane 2: CENP-A unmodified. Lane 3: CENP-A phospho Ser 16. Lane 4: CENP-A phospho Ser 18.



Immunofluorescence

Image 2. CENP-A phospho Ser18 antibody (pAb) tested by immunofluorescence. Detection of CENP-A phospho Ser18 by immunofluorescence. HeLa cells were stained with CENP-A phospho Ser18 antibody at a 1:100 dilution. Green: CENP-A phospho Ser18 antibody (pAb) Blue: DAPI



Western Blotting

Image 3. CENP-A phospho Ser18 antibody (pAb) tested by Western blot. Top: Recombinant CENP-A (20 ng) was probed with CENP-A phospho Ser18 antibody (1:100 dilution) (A) or with anti-centromere antibody (ACA) (B). CENP-A phospho Ser18 antibody does not detect recombinant CENP-A. Bottom: HeLa nuclear extract (20 µg) was probed with CENP-A phospho Ser18 antibody (1:250 dilution). Lane 1: CENP-A phospho-Ser18 antibody. Lane 2: anti-centromere antibody (ACA).