

Datasheet for ABIN349636

anti-CENPQ antibody**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	CENPQ
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CENPQ antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM)

Product Details

Immunogen:	This protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full-length human CENP-Q Recombinant Immunogen type: Recombinant
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	CENPQ
Alternative Name:	CENP-Q (CENPQ Products)
Background:	This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. Cenp-Q (also known as centromere protein Q or CENPQ) is a nuclear/centromeric protein that is one of the critical components that constitutes the CENP-O

Target Details

complex at the kinetochores and appears to stabilize PBIP1/CENP-U(50)/MLF1IP in the complex. This complex is important for proper recruitment of polo-like kinase 1 (Plk1) to the mitotic kinetochores. A failure in this process results in improper microtubule attachment to the kinetochores and chromosome missegregation that ultimately lead to aneuploidy.

Synonyms: Cenp-Q, centromere protein Q, CENPQ

Gene ID: 55166, 40068061

UniProt: [Q7L2Z9](#)

Application Details

Application Notes: This protein A purified antibody has been tested for use in ELISA, immunofluorescence microscopy and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 26-31 kDa in size corresponding to human CENP-Q by western blotting in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.15 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

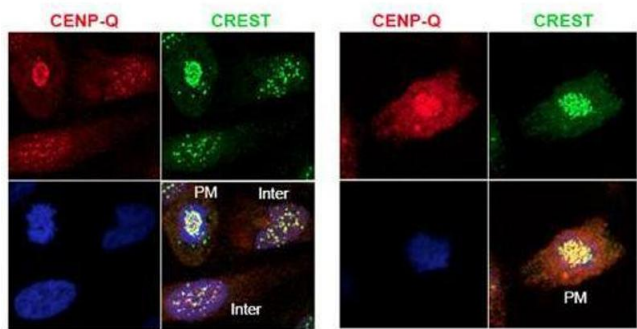
Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C



Western Blotting

Image 1. Western blot using protein A purified anti-CENP-Q antibody shows detection of endogenous CENP-Q in a HeLa whole cell lysate (lane 1, arrowhead). The blot was incubated for 1.5 hours at room temperature using the primary antibody diluted to 0.5µg/mL, followed by washes and incubation with to the secondary antibody. Lane 1: Lysates from HeLa cells transfected with control sh-virus. Lane 2: Lysates from HeLa cells transfected with Cenp-Q sh-virus. Personal Communication, Kyung S. Lee, CCR-NCI, Bethesda, MD.



Immunofluorescence

Image 2. Immunofluorescence microscopy using protein A purified anti-CENP-Q antibody shows detection of endogenous CENP-Q in HeLa whole cell lysate. Primary antibody was used at 1:100 followed by secondary antibody diluted 1:150. Red punctate anti-CENP-Q signal colocalizes in overlay images with green punctate anti-CREST signals at the kinetochores (attached points of sister chromatids). Visible are colocalized CENP-Q and CREST signal at various stages of the cell cycle as indicated from interphase to the end of mitosis. Nuclei are counter stained with bisbenzimidide. Personal Communication, Kyung S. Lee, CCR-NCI, Bethesda, MD