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Product datasheet for TA319487

CENPQ Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	ELISA: 1:5,000 1:20,000, WB: 1:100 - 1:500
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with full-length human CENP-Q recombinant protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	centromere protein Q
Database Link:	NP_060602 Entrez Gene 55166 Human Q7L2Z9
Synonyms:	C6orf139; CENP-Q
Note:	This antibody 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 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.

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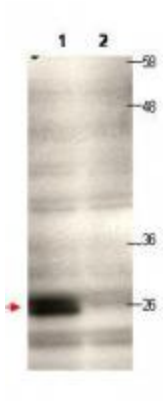
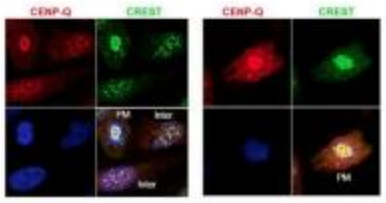
Product images:



WB using 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 RTusing the primary antibody diluted to 0.5?g/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.



IF using 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.