

CENPE Rabbit pAb

CatalogNo: YN6556

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB

MW

- 297kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from human CENPE

Specificity

This antibody detects endogenous levels of CENPE at Human, Mouse

Target Information

Gene name

CENPE

Protein Name	Centromere-associated protein E (Centromere protein E) (CENP-E) (Kinesin-related protein CENPE)		
	Organism	Gene ID	UniProt ID
	Human	1062;	Q02224;
	Mouse	229841;	Q6RT24;
Cellular Localization	Chromosome, centromere, kinetochore . Cytoplasm, cytoskeleton, spindle . Chromosome, centromere . Associates with kinetochores during congression (as early as prometaphase), relocates to the spindle midzone at anaphase, and is quantitatively discarded at the end of the cell division (By similarity). Recruited to the kinetochore in a SEPT7, CENPQ and TRAPPC12-dependent manner (PubMed:18460473, PubMed:25918224, PubMed:25395579). Recruited to the pericentromeric/centromeric regions of the chromosome in a CTCF-dependent manner (PubMed:26321640). .		
Function	Microtubule plus-end-directed kinetochore motor which plays an important role in chromosome congression, microtubule-kinetochore conjugation and spindle assembly checkpoint activation. Drives chromosome congression (alignment of chromosomes at the spindle equator resulting in the formation of the metaphase plate) by mediating the lateral sliding of polar chromosomes along spindle microtubules towards the spindle equator and by aiding the establishment and maintenance of connections between kinetochores and spindle microtubules . The transport of pole-proximal chromosomes towards the spindle equator is favored by microtubule tracks that are detyrosinated . Acts as a processive bi-directional tracker of dynamic microtubule tips; after chromosomes have congressed, continues to play an active role at kinetochores, enhancing their links with dynamic microtubule ends . Suppresses chromosome congression in NDC80-depleted cells and contributes positively to congression only when microtubules are stabilized . Plays an important role in the formation of stable attachments between kinetochores and spindle microtubules The stabilization of kinetochore-microtubule attachment also requires CENPE-dependent localization of other proteins to the kinetochore including BUB1B, MAD1 and MAD2. Plays a role in spindle assembly checkpoint activation (SAC) via its interaction with BUB1B resulting in the activation of its kinase activity, which is important for activating SAC. Necessary for the mitotic checkpoint signal at individual kinetochores to prevent aneuploidy due to single chromosome loss (By similarity).		

| Validation Data

| Contact information

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