



CENPE mouse mAb

Catalog No	YP-mAb-17900
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CENPE
Immunogen	Synthesized peptide derived from human CENPE
Specificity	This antibody detects endogenous levels of CENPE at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CENP E;CENPE;Centromere protein E;312kDa;KIF10;Kinesin related protein CENPE;Centromere-associated protein E (Centromere protein E) (CENP-E) (Kinesin-related protein CENPE)
Observed Band	300-316 kDa
Calculated Molecular Weight	316 kDa
Cell Pathway	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). .
Tissue Specificity	
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 c

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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