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Product datasheet for TA319576

CENPE Mouse Monoclonal Antibody [Clone ID: 1H12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1H12
Applications:	IF
Recommend Dilution:	ELISA: 1:5,000 - 1:20,000, WB: 1:500 - 1:2,000, IF: 1:500 - 1:2,000, IP: 1:200
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	This protein A purified monoclonal antibody was produced by repeated immunizations with a full length recombinant protein corresponding to human CENP-E protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1 mg/ml
Gene Name:	centromere protein E
Database Link:	NP_001804 Entrez Gene 1062 Human
Synonyms:	CENP-E; KIF10; MCPH13; PPP1R61
Note:	CENP-E, Centrosome-associated protein E, is a kinesin-like minus-end directed microtubule motor protein that accumulates in the G_2 phase of the cell cycle. Unlike other centrosome-associated proteins, it is not present during interphase and first appears at the centromere region of chromosomes during prometa-phase. CENP-E is proposed to be one of the motors responsible for mammalian chromosome movement and/or spindle elongation. CENP-E interacts with CENP-F and BUBR1 kinase. CENP-E associates with kinetochores during congression, relocates to the spindle midzone at anaphase, and is quantitatively discarded at the end of the cell division.
Protein Families:	Druggable Genome, Stem cell - Pluripotency

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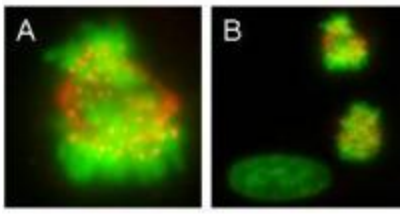
Product images:



Anti-CENPE antibody was used to detect CENPE protein, visible as discrete nuclear dots on prometaphase and metaphase cells that relocate to the spindle midzone at anaphase (panel A). Interphase cells show no discrete staining (bottom left, panel B). HeLa cells were fixed in paraformaldehyde and stained using this primary antibody. AlexaFluor 555 TM conjugated anti-Mouse antibody (red) was used for detection. DNA was stained using bis-benzimide (DAPI) (green).