

For Research Use Only

CENPE Recombinant monoclonal antibody, PBS Only

Catalog Number: 86805-3-PBS



Basic Information

Catalog Number: 86805-3-PBS	GenBank Accession Number: NM_001286734	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 1062	CloneNo.: 251614G4
Source: Rabbit	UNIPROT ID: Q02224	
Isotype: IgG	Full Name: centromere protein E, 312kDa	
Immunogen Catalog Number: AG27230	Calculated MW: 316 kDa	
	Observed MW: 300-316 kDa	

Applications

Tested Applications:
WB, IF/ICC, Indirect ELISA

Species Specificity:
human, mouse

Background Information

Centromeric protein E (CENPE) is also named Kinesin-7. CENPE, a member of the centromere protein (CENP) family, functions as a microtubule plus-end directed motor protein that is upregulated during the G2 phase (PMID: 31115500, PMID: 7851898, PMID: 38560520). It plays a crucial role in the spindle assembly checkpoint (SAC), chromosome alignment, and microtubule capture at kinetochores during mitosis (PMID: 30784092). CENPE is essential for mitotic white matter, which accumulates during the G2 phase of the cell cycle, is consumed throughout mitosis and degrades later in the cell cycle (PMID: 33862458). CENPE regulates the cell cycle by targeting the transcription of CDK1 in the nucleus (PMID: 33862458). Studies on tumor cells have shown that CENPE plays an important role in the regulation of cell proliferation, apoptosis, migration and other activities (PMID: 33862458).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

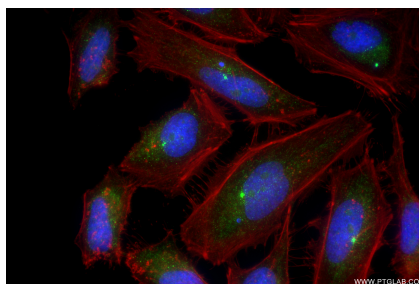
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Jurkat lysates were subjected to SDS PAGE followed by western blot with 86805-3-RR (CENPE antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86805-3-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CENPE antibody (86805-3-RR, Clone: 251614G4) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 86805-3-PBS in a different storage buffer formulation.