Centromere Protein E (CENPE) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Centromere Protein E (CENPE), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Centromere Protein E (CENPE)
Product Gene Name	anti-CENPE antibody
Product Synonym Names	CENP-E; KIF10; Centromere-Associated Protein E
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: CENPE (MBS2017051) PE Conjugated Antibody: CENPE (MBS2040407)
Matching Pairs	PE Conjugated Antibody: CENPE (MBS2040407) Immunogen: CENPE (MBS2018455)
Molecular Weight	301,789 Da
OMIM	Z15005 mRNA
3D Structure	ModBase 3D Structure for Q02224
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	CENPE (Ala2450~Arg2590)
Conjugation	PE
Cross Reactivity	Human
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2017051
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CENPE antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-CENPE antibody	MBS2040407 is an antibody targeting CENPE. Also known as PE-Linked Polyclonal Antibody to Centromere Protein E (CENPE). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CENPE antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CENPE. It may not necessarily be applicable to this product.

NCBI GI #	160358869
NCBI GeneID	1062
NCBI Accession #	Q02224.2

UniProt Primary Accession #	Q02224
UniProt Secondary Accession #	Q4LE75; A6NKY9; A8K2U7
UniProt Related Accession #	Q02224
NCBI Official Full Name	Centromere-associated protein E
NCBI Official Synonym Full Names	centromere protein E
NCBI Official Symbol	CENPE
NCBI Official Synonym Symbols	KIF10; CENP-E; MCPH13; PPP1R61
UniProt Protein Name	Centromere-associated protein E
UniProt Synonym Protein Names	Centromere protein E; CENP-E; Kinesin-7
Protein Family	Centromere-associated protein
UniProt Gene Name	CENPE
UniProt Synonym Gene Names	CENP-E
NCBI Protein Information	centromere-associated protein E
NCBI Summary for CENPE	Centrosome-associated protein E (CENPE) is a kinesin-like motor protein that accumulates in the G2 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 prometaphase. This protein is required for stable spindle microtubule capture at kinetochores which is a necessary step in chromosome alignment during prometaphase. This protein also couples chromosome position to microtubule depolymerizing activity. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms. [provided by RefSeq, Nov 2014]
UniProt Comments for CENPE	CENPE: Essential for the maintenance of chromosomal stability through efficient stabilization of microtubule capture at kinetochores. Plays a key role in the movement of chromosomes toward the metaphase plate during mitosis. Is a slow plus end- directed motor whose activity is essential for metaphase chromosome alignment. Couples chromosome position to microtubule depolymerizing activity. The highly processive microtubule- dependent motor activity of CENPE serves to power chromosome congression and provides a flexible, motile tether linking kinetochores to dynamic spindle microtubules. Necessary for the mitotic checkpoint signal at individual kinetochores to prevent aneuploidy due to single chromosome loss. Required for the efficient recruitment of BUBR1, MAD1 and MAD2 to attached and newly unattached kinetochores. Stimulates mammalian BUBR1 kinase activity. Accumulates just before mitosis at the G2 phase of the cell cycle. Belongs to the kinesin-like protein family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Microtubule-binding; Motor Chromosomal Location of Human Ortholog: 4q24 Cellular Component: chromosome; chromosome, pericentric region; cytoplasm; cytosol; kinesin complex; kinetochore; membrane; microtubule; microtubule cytoskeleton; midbody; nucleus; outer kinetochore of condensed chromosome Molecular Function: ATPase activity; kinetochore binding; microtubule motor activity; protein binding Biological Process: antigen processing and presentation of exogenous peptide antigen via MHC class II; attachment of spindle microtubules to kinetochore during mitosis; chromosome segregation; metaphase plate congression; microtubule-based movement; mitotic cell cycle; mitotic chromosome movement towards spindle pole; mitotic metaphase plate congression; positive regulation of protein kinase activity; regulation of mitotic metaphase/anaphase transition; retrograde vesicle-mediated transport, Golgi to ER; sister chromatid cohesion Disease: Microcephaly 13, Primary, Autosomal Recessive
Research Articles on CENPE	**1.** CTCF helps recruit CENP-E to the centromere during mitosis and that it may do so through a structure stabilized by the CTCF/CENP-E complex.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/centromere-protein-e-cenpe/2040407