

## Recombinant Human CENPH, His-tagged

**Cat. No.** CENPH-27395TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment, corresponding to amino acids 9-247 of Human CENPH with an N-terminal His Tag, approximately 42kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 9-247 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Centromere and kinetochore proteins play a critical role in centromere structure, kinetochore formation, and sister chromatid separation. The protein encoded by this gene colocalizes with inner kinetochore plate proteins CENP-A and CENP-C in both interphase and metaphase. It localizes outside of centromeric heterochromatin, where CENP-B is localized, and inside the kinetochore corona, where CENP-E is localized during prometaphase. It is thought that this protein can bind to itself, as well as to CENP-A, CENP-B or CENP-C. Multimers of the protein localize constitutively to the inner kinetochore plate and play an important role in the organization and function of the active centromere-kinetochore complex. |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Lyophilised:reconstitution with 102 µl aqua dest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage buffer</b>   | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                             |
| <b>Sequences of amino acids</b> | DADEPADSGGEGRAGGPPQVAGAQAACSEDRMTLLLRLRA QTKQQLLEYKSMVD<br>ASEEKTPEQIMQEKQIEAKIEDLE NEIEEVKVAFEIKKLALDRMRLSTALKKNLEKISR<br>QSS VLMDNMKHLLELNKLIMKSQQESWDLEEKLLDIRKKRLQL KQASESKLLEIQTE<br>KNKQKIDLDSEMSERIKIIRQNL QMEIKITTVIQHVFNILGSKVNWAEDPALKEIVL<br>QL EKNVDM |
| <b>Sequence Similarities</b>    | Belongs to the centromere protein H family.                                                                                                                                                                                                                       |

## GENE INFORMATION

|                            |                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">CENPH centromere protein H [ Homo sapiens ]</a>                                           |
| <b>Official Symbol</b>     | <a href="#">CENPH</a>                                                                                 |
| <b>Synonyms</b>            | CENPH; centromere protein H; NNF1; MIND kinetochore complex component; homolog (S. cerevisiae); PMF1; |
| <b>Gene ID</b>             | <a href="#">64946</a>                                                                                 |
| <b>mRNA Refseq</b>         | <a href="#">NM_022909</a>                                                                             |
| <b>Protein Refseq</b>      | <a href="#">NP_075060</a>                                                                             |
| <b>MIM</b>                 | <a href="#">605607</a>                                                                                |
| <b>Uniprot ID</b>          | <a href="#">Q9H3R5</a>                                                                                |
| <b>Chromosome Location</b> | 5p15.2                                                                                                |

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pathway  | Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Replication, organism-specific biosystem; Deposition of New CENPA-containing Nucleosomes at the Centromere, organism-specific biosystem; M Phase, organism-specific biosystem; |
| Function | kinetochore binding; protein binding;                                                                                                                                                                                                                                                     |

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