

**产品名称: CENPE (15A19) Rabbit Monoclonal Antibody**

**产品货号: AMRe08639**

### 产品概述 (Summary)

|                   |                                                                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 描述(Description)   | Recombinant rabbit monoclonal antibody                                                                                                                                                |
| 宿主(Host)          | Rabbit                                                                                                                                                                                |
| 应用(Application)   | WB                                                                                                                                                                                    |
| 种属反应(Reactivity)  | Human                                                                                                                                                                                 |
| 偶联物(Conjugation)  | Unconjugated                                                                                                                                                                          |
| 修饰(Modification)  | Unmodified                                                                                                                                                                            |
| 同种型(Isotype)      | IgG                                                                                                                                                                                   |
| 克隆(Clonality)     | Monoclonal                                                                                                                                                                            |
| 剂型(Form)          | Liquid                                                                                                                                                                                |
| 保存条件(Storage)     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.<br>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative |
| 储存溶液(Buffer)      | N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.                                                                                    |
| 纯化 (Purification) | Affinity purification                                                                                                                                                                 |

### 产品应用(Application)

|                       |                  |
|-----------------------|------------------|
| 稀释比(Dilution Ratio)   | WB 1:1000-1:5000 |
| 分子量(Molecular Weight) | 316kDa           |

### 抗原信息(Antigen Information)

|                       |                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名(Gene Name)        | CENPE                                                                                                                                    |
| 别名(Alternative Names) | CENP E; Centromere associated protein E; Centromere protein E 312kDa; KIF10; Kinesin family member 10; Kinesin related protein; PPP1R61; |
| 基因 ID(Gene ID)        | 1062.0                                                                                                                                   |
| SwissProt ID          | Q02224                                                                                                                                   |
| 免疫原(Immunogen)        | A synthetic peptide of human CENPE                                                                                                       |

### 研究背景 (Background)

CENPE is a 250-300 kDa human centromere-associated kinesin-like motor protein that accumulates in G2 phase. 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 (PubMed:7889940, PubMed:23891108, PubMed:25395579). The transport of pole-proximal chromosomes towards the spindle equator is favored by microtubule tracks that are detyrosinated (PubMed:25908662). 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 (PubMed:23955301). Suppresses chromosome congression in NDC80-depleted cells and contributes positively to congression only when microtubules are stabilized (PubMed:25743205). Plays an important role in the formation of stable attachments between kinetochores and spindle microtubules (PubMed:17535814) The stabilization of kinetochore- microtubule attachment also requires CENPE-dependent localization of other proteins to the kinetochore including BUB1B, MAD1 and MAD2. Plays a role in spindle assembly checkpoint activation (SAC) via its interaction with BUB1B resulting in the activation of its kinase activity, which is important for activating SAC. Necessary for the mitotic checkpoint signal at individual kinetochores to prevent aneuploidy due to single chromosome loss (By similarity).

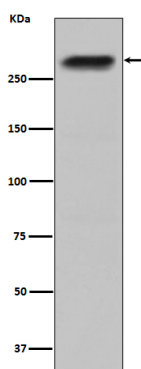
### 研究领域 (Research Area)

Epigenetics and Nuclear Signaling

### 注意事项 (Note)

For research use only.

### 图片 (Image Data)



Western blot analysis of CENPE expression in HepG2 cell lysate.

## EnkiLife 优势产品推荐

| 产品类别                        | 产品货号     | 产品名称                                               |
|-----------------------------|----------|----------------------------------------------------|
| WB 解决方案                     | RA10020  | 2h 极速 WB 即用型全流程试剂盒                                 |
|                             | RA10021  | 4h 快速 WB 即用型全流程试剂盒                                 |
|                             | RA10042  | 5h 畅享版 WB 全流程试剂盒                                   |
|                             | RA10037  | 校准级彩色预染蛋白 Marker (8-180kDa)                        |
|                             | RA10038  | 校准级彩色预染蛋白 Marker (10-250kDa)                       |
|                             | RA10039  | 校准级高分子彩色预染蛋白 Marker (25-400kDa)                    |
| TSA 多重荧光染色试剂盒               | RA10008  | TSA 双标三色多重荧光染色试剂盒 (mIHC)                           |
|                             | RA10009  | TSA 三标四色多重荧光染色试剂盒 (mIHC)                           |
|                             | RA10010  | TSA 四标五色多重荧光染色试剂盒 (mIHC)                           |
|                             | RA10011  | TSA 五标六色多重荧光染色试剂盒 (mIHC)                           |
|                             | RA10012  | TSA 六标七色多重荧光染色试剂盒 (mIHC)                           |
| IHC 检测试剂盒                   | RA10006  | HRP Anti-Mouse/Rabbit IHC Detection System         |
|                             | RA10007  | Polymer-HRP Anti-Mouse/Rabbit IHC Detection System |
| 抗体标记试剂盒                     | RE80004p | 辣根过氧化物酶(HRP)抗体标记试剂盒                                |
|                             | RE80002q | Sulfo-NHS-生物素标记试剂盒                                 |
|                             | RE80007p | Cy3 荧光素标记试剂盒                                       |
|                             | RE80011p | Fluor488 荧光素标记试剂盒                                  |
|                             | RE80017p | Fluor750 荧光素标记试剂盒                                  |
|                             | RE80005p | 藻红蛋白(R-PE) 抗体快速标记试剂盒                               |
|                             | RE80040  | PE-Cy7 串联染料抗体快速标记试剂盒                               |
| 稳转细胞系构建服务<br>(免费赠送全膜 WB 验证) | TS-0001  | 过表达稳转细胞系构建                                         |
|                             | TS-0002  | 敲低稳转细胞系构建                                          |
|                             | TS-0003  | 敲除细胞系构建                                            |

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