# Recombinant Human Proliferation marker protein Ki-67 (MKI67), partial

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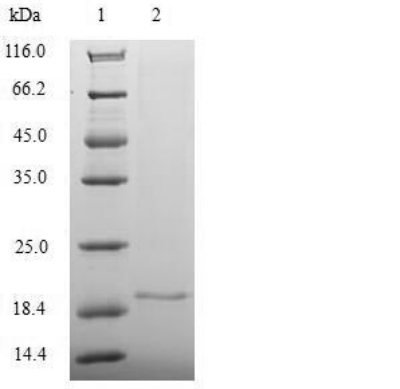
| **Product Code** | CSB-EP014597HU |
| **Relevance** | Thought to be required for maintaining cell proliferation. |
| **Abbreviation** | Recombinant Human MKI67 protein, partial |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| **Uniprot No.** | P46013 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Sequence** | NEKKPMKTSPEMDIQNPDDGARKPIPRDKVTENKRCLRSARQNESSQPKVAE ESGGQKSAKVLMQNQKGKGEAGNSDSMCLRSRKTKSQPAASTLESKSVQRV TRSVKRCAENPKKAEDNVCVKKIRTRSHRDSEDI |
| **Research Area** | Others |
| **Source** | E.coli |
| **Target Names** | MKI67 |
| **Protein Names** | Recommended name: Antigen KI-67 |
| **Expression Region** | 3120-3256aa |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | N-terminal 6xHis-tagged |
| **Mol. Weight** | 19.4 kDa |
| **Protein Length** | Partial |
| **Image** | |




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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| **Description** | Amino acids 3120-3256 form the expressed segment for recombinant Human MKI67. The calculated molecular weight for this MKI67 protein is 19.4 kDa. The MKI67 protein was expressed in e.coli. The MKI67 gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant MKI67 protein during the following stages.<br><br>The human proliferation marker protein Ki-67, encoded by the MKI67 gene, is a widely utilized marker for cellular proliferation. Ki-67 is present during all active phases of the cell cycle (G1, S, G2, and mitosis) but absent in the resting phase (G0). It serves as a nuclear marker for assessing and quantifying the proliferative activity of cells, playing a crucial role in cancer diagnosis and prognosis. Researchers often employ Ki-67 immunohistochemistry to evaluate the growth fraction of tumors and determine their aggressiveness. Beyond cancer research, Ki-67 is also explored in studies related to cell cycle regulation, apoptosis, and various physiological and pathological processes associated with cell proliferation. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| **Shelf Life** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |