



# Recombinant Human Major centromere autoantigen B (CENPB)

<b>Product Code</b>	CSB-EP005206HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P07199
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>GPKRRQLTFREKSRIIQEVEENPDLRKGEIARRFNIPPSTLSTILKNKRAILASER          KYGVASTCRKTNKLSPYDKLEGLLIWFQQIRAAGLPVKGIIKKEKALRIAEELG          MDDFTASNGWLDLRFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSE          GSGGSTTGWRAREEQPPSVAEGYASQDVFSATETSLWYDFLPDQAAGLCGG          DGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLPDQYDANSK          GGVTTQALAKYLKALDTRMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPP          GTVHPLERGVVQQVKGHYRQAMLLKAMAALLEGQDPSGLQLGLTEALHFVAAA          WQAVEPSDIAACFREAGFGGGPNATITTTSLKSEEEEEEEEEEEEEEGEGEE          EEEEEEEEEEGGEGEELGEEEEVEEEEGDVDSDEEEEEDEESSSEGLEAED          WAQGVVEAGGSFGAYGAQEEAQCPHLHFLEGGEDSDSDSEEEDEEEDDED          EDDDDDEEDGDEVPVPSFGEAMAYFAMVKRYLTSFPIDDRVQSHILHLEHDLV          HVTRKNHARQAGVRGLGHQS</p>
<b>Source</b>	E.coli
<b>Target Names</b>	CENPB
<b>Protein Names</b>	Recommended name: Major centromere autoantigen B Alternative name(s): Centromere protein B Short name= CENP-B
<b>Expression Region</b>	2-599
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length of mature form
<b>Target Details</b>	This gene product is a highly conserved protein that facilitates centromere formation. It is a DNA-binding protein that is derived from transposases of the pogo DNA transposon family. It contains a helix-loop-helix DNA binding motif at the N-terminus, and a dimerization domain at the C-terminus. The DNA binding domain recognizes and binds a 17-bp sequence (CENP-B box) in the centromeric alpha satellite DNA. This protein is proposed to play an important role in the assembly of specific centromere structures in interphase nuclei and on mitotic chromosomes. It is also considered a major centromere autoantigen recognized by sera from patients with anti-centromere antibodies.
<b>Reconstitution</b>	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.

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.