



Recombinant Human Major centromere autoantigen B (CENPB)

Product Code	CSB-YP005206HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P07199
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	<p>GPKRRQLTFREKSRIIQEVEENPDLRKGEIARRFNIPPSTLSTILKNKRAILASER KYGVASTCRKTNKLSPYDKLEGLLIWFQQIRAAGLPVKGIIKKEKALRIAEELG MDDFTASNGWLDLRFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSE GSGGTTGWRAREEQPPSVAEGYASQDVFSATETSLWYDFLPDQAAGLCGG DGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLPCDYTANSK GGVTTQALAKYLKALDTRMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPP GTVHPLERGVVQQVKGHYRQAMLLKAMAALLEGQDPSGLQLGLTEALHFVAAA WQAVEPSDIAACFREAGFGGGPNATITTSKSEGESEEEEEEEEEEEEEEGEGEE EEEEEEEEEEGEGEELGEEEEVEEEGDVDSDEEEEEDEESSEGLEAED WAQGVVEAGGSFGAYGAQEEAQCPHLHFLEGGEDSDSDSEEDDEEDEDDED EDDDDDEEDGDEVPVPSFGEAMAYFAMVKRYLTSFPIDDRVQSHILHLEHDLV HVTRKNHARQAGVRGLGHQS</p>
Source	Yeast
Target Names	CENPB
Protein Names	Recommended name: Major centromere autoantigen B Alternative name(s): Centromere protein B Short name= CENP-B
Expression Region	2-599
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length of mature form
Target Details	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.
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.

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.