

Recombinant Full Length Human CENPB Protein, GST-tagged

Cat. No. CENPB-3318HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CENPB full-length ORF (AAH53847.1, 1 a.a. - 599 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	599 amino acids
Description	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. [provided by RefSeq, Jul 2008]
Molecular Mass	92.29 kDa
AA Sequence	MGPKRRQLTFREKSRIIQEVEENPDLRKGEIARRFNIPPSTLSTILKNKRAILASERKY GVASTCRKTNKLSPPYDKLEGLLIAWFQQIRAAGLPVKGIILKEKALRIAEEELGMDDFTA SNGWLDRFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGSGGSTTGW RAREEQPPSVAEGYASQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSV

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LLCANADGSEKLPPLVAGKSAKPRAGQAGLPCDYTANSKGGVTTQALAKYLKALDT
 RMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPPGTVHPLERGVVQQVKGHYR
 QAMLLKAMAALEGQDPSGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGP
 NATITTSLKSEGESEEEEEEEEEEEEEEGEGEEEEEEEEEGEGEGEELGEEEEVE
 EEGDVDSDEEEEEDEESSSEGLEAEDWAQGVVEAGGSFGAYGAQEEAQCPTLHFL
 EGGEDSDSDSEEEEDDEEEDDEDEDDEEDGDEVVPSFGEAMAYFAMVKRYL
 TSFPIDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CENPB centromere protein B, 80kDa [Homo sapiens]

Official Symbol

CENPB

Synonyms

CENPB; centromere protein B, 80kDa; centromere protein B (80kD); major centromere autoantigen B; CENP-B; centromere autoantigen B;

Gene ID

1059

mRNA Refseq

NM_001810

Protein Refseq

NP_001801

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MIM	117140
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UniProt ID	P07199
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