Recombinant Human CENPB Protein, GST-Tagged

Cat. No. CENPB-1112H **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	Wheat Germ
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 GVASTCRKTNKLSPYDKLEGLLIAWFQQIRAAGLPVKGIILKEKALRIAEELGMDDFTA SNGWLDRFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGSGGSTTGW RAREEQPPSVAEGYASQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSV LLCANADGSEKLPPLVAGKSAKPRAGQAGLPCDYTANSKGGVTTQALAKYLKALDT

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	RMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPPGTVHPLERGVVQQVKGHYR QAMLLKAMAALEGQDPSGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGP NATITTSLKSEGEEEEEEEEEEEEEGEGEEEEEEGEEEEEEGGEGEELGEEEEVE EEGDVDSDEEEEEDEESSSEGLEAEDWAQGVVEAGGSFGAYGAQEEAQCPTLHFL EGGEDSDSDSEEEDDEEEDDEDEDDDDDEEDGDEVPVPSFGEAMAYFAMVKRYL 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
UniProt ID	P07199

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