

Recombinant Full Length Human CENPB Protein, C-Flag-tagged

Cat. No. CENPB-886HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CENPB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	65 kDa
AA Sequence	MGPKRRQLTFREKSRIIQEVEENPDLRKGEIARRFNIPPSTLSTILKNKRAILASERKY GVASTCRKTNK LSPYDKLEGLLIWFQQIRAAGLPVKGIILKEKALRIAEEELGMDDFT ASNGWLDRFRRRHGVVSCSGVAR ARARNAAPRTPAAPASPAAVPSEGGSGSTTG

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WRAREEQPPSVAEGYASQDVFSATETSLWYDFLPDQAAG LCGGDGRPRQATQRL
 SVLLCANADGSEKLPLVAGKSAKPRAGQAGLPDCTYANSKGGVTTQALAKYLKA L
 DTRMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPPGTVHPLERGVVQVKGHY
 RQAMLLKAMAALE GQDPSGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGG
 PNATITTSKSEGESEEEEEEEEEEEEEEG EGEEEEEEGEEEEEGGEGEELGEEEEV
 EEEGDVDSDEEEEEDEESSSEGLEAEDWAQGVVEAGGSFGAY GAQEEAQCTLH
 FLEGGEDSDSDSEEEEDDEEEEDDEDEDDEEDDDDEEDGDDEVPVPSFGEAMAYFAMVKR
 YLTS
 FPIDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQSTRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

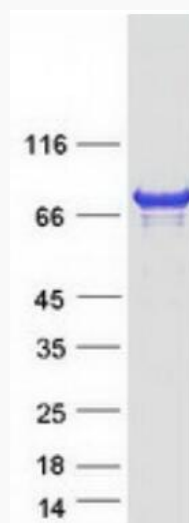
Gene Name CENPB centromere protein B [Homo sapiens (human)]

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Official Symbol	CENPB
Synonyms	centromere autoantigen B; centromere protein B; centromere protein B (80kD); centromere protein B, 80kDa; OTTHUMP00000030132
Gene ID	1059
mRNA Refseq	NM_001810.6
Protein Refseq	NP_001801.1
MIM	117140
UniProt ID	P07199



Coomassie blue staining of purified CENPB protein.