

Recombinant Human CEP290, His-tagged

Cat. No. CEP290-11112H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CEP290 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	869-1103a.a.
Description	This gene encodes a protein with 13 putative coiled-coil domains, a region with homology to SMC chromosome segregation ATPases, six KID motifs, three tropomyosin homology domains and an ATP/GTP binding site motif A. The protein is localized to the centrosome and cilia and has sites for N-glycosylation, tyrosine sulfation, phosphorylation, N-myristoylation, and amidation. Mutations in this gene have been associated with Joubert syndrome and nephronophthisis and the presence of antibodies against this protein is associated with several forms of cancer.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	CEP290 centrosomal protein 290kDa [Homo sapiens]
Official Symbol	CEP290
Synonyms	CEP290; centrosomal protein 290kDa; centrosomal protein of 290 kDa; 3H11Ag; BBS14; cancer/testis antigen 87; CT87; FLJ13615; JBTS5; Joubert syndrome 5; KIAA0373; LCA10; Meckel syndrome; type 4; MKS4; nephrocystin 6; NPHP6; POC3; POC3 centriolar protein homolog (Chlamydomonas); rd16; SLSN6; nephrocytsin-6; tumor antigen se2-2; Meckel syndrome, type 4; CTCL tumor antigen se2-2; prostate cancer antigen T21; POC3 centriolar protein homolog; Bardet-Biedl syndrome 14 protein; monoclonal 3H11 antigen; FLJ21979;
Gene ID	80184
mRNA Refseq	NM_025114
Protein Refseq	NP_079390
MIM	610142
UniProt ID	O15078
Chromosome Location	12q21.33
Pathway	Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem; Loss of proteins required for interphase microtubule organization??from the centrosome, organism-specific biosystem; Mitotic G2-G2/M phases, organism-specific biosystem;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

NOT microtubule minus-end binding; protein binding;

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA