

Recombinant Human MCPH1 Protein, GST-tagged

Cat. No. MCPH1-4512H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MCPH1 full-length ORF (AAH30702.2, 1 a.a. - 610 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene encodes a DNA damage response protein. The encoded protein may play a role in G2/M checkpoint arrest via maintenance of inhibitory phosphorylation of cyclin-dependent kinase 1. Mutations in this gene have been associated with primary autosomal recessive microcephaly 1 and premature chromosome condensation syndrome. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010]
Molecular Mass	94.2 kDa
AA Sequence	MAAPILKDVVAYVEVWSSNGTENYSKTFTTQLVDMGAKVSKTFNKQVTHVIFKDG YQSTWDKAQKRGVKLVSVLWVEKCRTAGAHIDESLFPAANMNEHLSSLIKKRKCMQ PKDFNFKTPENDKRFQKKFEKMAKELQRQKTNLDDDPILLFESNGSLIYTPTIEINSS HHSAMEKRLQEMKEKRENLSPTSSQMIQQSHDNPSNSLCEAPLNISRDTLCSDEYF AGGLHSSFDDLCGNSGCGNQERKLEGSINDIKSDVCISLVLKANNIHSSPSFTHLDK SSPQKFLSNLSKEEINLQRNIAGKVVTTPHQKQAAGMSQETFEEKYRLSPTLSSTKGH LLIHSRPRSSSVKRVSHGSHSPPKEKCKRKRSTRRSIMPLQLCRSEGRQLQHVA GPALEALSCGESSYDDYFSPDNLKERYSENLPPESQLPSSPAQLSCRSLSKKERTSI

 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

FEMSDFSCVGKKTRTVDTNFTAKTISSPRKTGNNGEGRATSSCVTSAPEEALRCCRQ
AGKEDACPEGNGFSYTIEDPALPKGHHDDLTPLSGSLEEMKEAVGLKSTQNKGTTS
KISNSSEGEAQSEHEPCFIVDCNMETSTEEKENLPGGYSGSM

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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

[MCPH1 microcephalin 1 \[Homo sapiens \]](#)

Official Symbol

[MCPH1](#)

Synonyms

MCPH1; microcephalin 1; microcephaly, primary autosomal recessive 1;
microcephalin; BRCT repeat inhibitor of TERT expression 1; BRIT1; FLJ12847;
BRCT-repeat inhibitor of TERT expression 1; MCT;

Gene ID

[79648](#)

mRNA Refseq

[NM_001172574](#)

Protein Refseq

[NP_001166045](#)

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MIM	607117
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UniProt ID	Q8NEM0
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