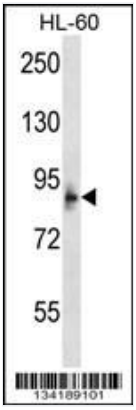
MCPH1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MCPH1, Polyclonal Antibody
Full Product Name	MCPH1, NT (MCPH1, Microcephalin) (APC)
Product Gene Name	anti-MCPH1 antibody
Product Synonym Names	MCPH1; Microcephalin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	67,915 Da
OMIM	251200
3D Structure	ModBase 3D Structure for Q8NEM0
Immunogen	MCPH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-133 amino acids from the N-terminal region of human MCPH1.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MCPH1 antibody	Antibodies; Disease Markers
Applications Tested/Suitable for anti-MCPH1 antibody	Western Blot (WB), FLISA
Application Notes for anti-MCPH1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MCPH1 antibody	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.
Product References and Citations for anti-MCPH1 antibody	Wang, Y., et al. J. Hum. Genet. 55(8):490-494(2010). Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010). Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Olson, J.E., et al. Breast Cancer Res. Treat. (2010). In press: Wang, Y.Q., et al. Hum. Mol. Genet. 13(11):1131-1137(2004).

Other Notes	Small volumes of anti-MCPH1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MCPH1 purchase	MBS6319761 is an antibody targeting MCPH1. Also known as MCPH1, NT (MCPH1, Microcephalin) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MCPH1 antibody
MCPH1 Antibody (N-term) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the MCPH1 antibody detected the MCPH1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCPH1. It may not necessarily be applicable to this product.

NCBI GI #	122891872
NCBI GeneID	79648
NCBI Accession #	NP_078872.2
NCBI Related Accession #	NP_001166045.1
UniProt Primary Accession #	Q8NEM0
UniProt Secondary Accession #	Q66GU1; Q9H9C7; B4DWW2; E9PGU5; E9PH63
UniProt Related Accession #	Q8NEM0
GenBank Nucleotide #	NM_024596.3
NCBI Official Full Name	microcephalin isoform 1
NCBI Official Synonym Full Names	microcephalin 1
NCBI Official Symbol	MCPH1
NCBI Official Synonym Symbols	MCT; BRIT1
UniProt Protein Name	Microcephalin
Protein Family	Microcephalin
UniProt Gene Name	MCPH1
UniProt Entry Name	MCPH1_HUMAN
NCBI Protein Information	microcephalin

UniProt Comments for MCPH1	MCPH1: a DNA damage responsive protein and transcriptional repressor of human telomere reverse transcriptase. An early responder to DNA damage. Required for double strand break repair via homologous recombination and nonhomologous end joining. Promotes chromatin relaxation by recruiting and maintaining the chromatin remodeling SWI-SNF complex at sites of DNA double strand breakage. Participates in the ATR/Chk1-mediated DNA checkpoint in humans and transcriptionally regulates BRCA1 and Chk1. Plays a role in neurogenesis and regulation of the size of the cerebral cortex. Mutations of MCPH1 can cause microcephaly in humans and appears to play an evolutionarily conserved role in brain development. Alterations have been identified in breast, ovarian and prostate cancer. Appears to coordinate S-M transitions in fly embryos. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 8p23.1 Cellular Component: nucleoplasm; cytoplasm; microtubule organizing center Molecular Function: identical protein binding; protein binding Biological Process: mitotic cell cycle; cerebral cortex development Disease: Microcephaly 1, Primary, Autosomal Recessive
Research Articles on MCPH1	**1.** Data indicate splice-acceptor site homozygous mutation in intron 4 of microcephalin (MCPH1) gene in 2 children.
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