产品名称：Microcephalin Rabbit Polyclonal Antibody
产品货号：APRab13894

产品概述（Summary）

产品名称（Production Name）	Microcephalin Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,IHC,ICC/IF,ELISA
种属反应性（Reactivity）	Human,Mouse

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	MCPH1
别名（Alternative Names）	MCPH1; Microcephalin
基因 ID（Gene ID）	79648.0
蛋白 ID（SwissProt ID）	Q8NEM0.The antiserum was produced against synthesized peptide derived from human MCPH1. AA range:91-140

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
蛋白分子量（Molecular Weight）	93kDa

研究背景（Background）

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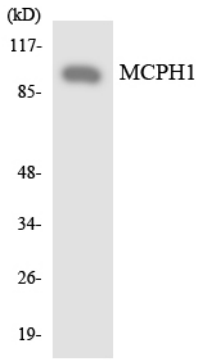
This gene encodes a DNA damage response protein. The encoded protein may play a role in G2/M checkpoint arrest via maintenance of inhibitory phosphorylation of cyclin-dependent kinase 1. Mutations in this gene have been associated with primary autosomal recessive microcephaly 1 and premature chromosome condensation syndrome. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010],disease:Defects in MCPH1 are a cause of premature chromosome condensation with microcephaly and mental retardation (PCC syndrome) [MIM:606858]. PCC syndrome is a disorder of microcephaly, short stature and misregulated chromosome condensation. Patients with this condition have a high number (10%-15%) of prophase-like cells in routine cytogenetic preparations and have poor-quality metaphase G-banding.,disease:Defects in MCPH1 are the cause of microcephaly primary type 1 (MCPH1) [MIM:251200]; also known as true microcephaly or microcephaly vera. Microcephaly is defined as a head circumference more than 3 standard deviations below the age-related mean. Brain weight is markedly reduced and the cerebral cortex is disproportionately small. Despite this marked reduction in size, the gyral pattern is relatively well preserved, with no major abnormality in cortical architecture. Primary microcephaly is further defined by the absence of other syndromic features or significant neurological deficits. This entity is inherited as autosomal recessive trait.,function:Implicated in chromosome condensation and DNA damage induced cellular responses. May play a role in neurogenesis and regulation of the size of the cerebral cortex.,miscellaneous:MCPH1 deficient cells exhibit a delay in post-mitotic chromosome decondensation.,online information:A grey matter - Issue 64 of November 2005,similarity:Contains 3 BRCT domains.,tissue specificity:Expressed in fetal brain, liver and kidney.,

研究领域（Research Area）

Epigenetics and Nuclear Signaling; DNA / RNA; DNA Damage & Repair; DNA Damage Response; BRCT Domain Proteins

图片（Image Data）



Western blot analysis of the lysates from HT-29 cells using MCPH1 antibody.

注意事项（Note）

For research use only .