# Microcephalin Rabbit pAb

CatalogNo: YT2759

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,IHC,IF,ELISA

MW
- 93kD (Observed)

Isotype
- IgG

## Recommended Dilution Ratios

**WB 1:500-1:2000**
**IHC 1:100-1:300**
**ELISA 1:40000**
**IF 1:50-200**

## Storage

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|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Basic Information

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|---|---|
| **Clonality** | Polyclonal |

## Immunogen Information

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|---|---|
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human MCPH1. AA range:91-140 |
| **Specificity** | Microcephalin Polyclonal Antibody detects endogenous levels of Microcephalin protein. |

## Target Information

**Gene name** MCPH1

**Protein Name** Microcephalin

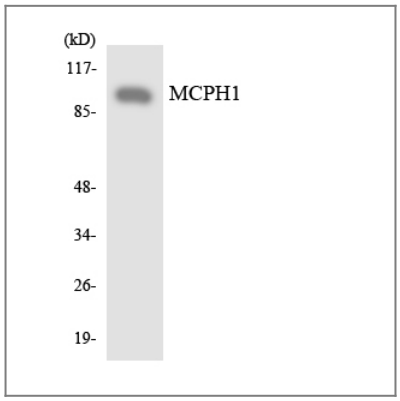
| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 79648; | Q8NEM0; |
| Mouse | 244329; | Q7TT79; |

**Cellular Localization** Cytoplasm, cytoskeleton, microtubule organizing center, centrosome .

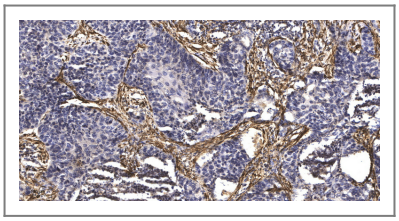
**Tissue specificity** Expressed in fetal brain, liver and kidney.

**Function** 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.,

## Validation Data




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



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

## Contact information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