
Product Name: ASPM Rabbit Polyclonal Antibody**Catalog #: APRab07228**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	IHC,ICC/IF
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	IHC 1:50-1:300,ICC/IF 1:50-1:200
Molecular Weight	382kDa

Antigen Information

Gene Name	ASPM
Alternative Names	MCPH5
Gene ID	259266.0
SwissProt ID	Q8IZT6
Immunogen	Synthesized peptide derived from human protein . at AA range: 1230-1310

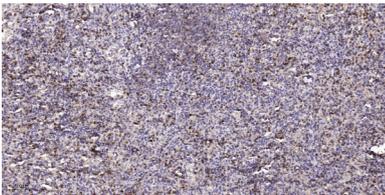
Background

This gene is the human ortholog of the Drosophila melanogaster 'abnormal spindle' gene (asp), which is essential for normal mitotic spindle function in embryonic neuroblasts. Studies in mouse also suggest a role of this gene in mitotic spindle regulation, with a preferential role in regulating neurogenesis. Mutations in this gene are associated with microcephaly primary

type 5. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2011],disease:Defects in ASPM are the cause of microcephaly primary type 5 (MCPH5) [MIM:608716]; 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:Probable role in mitotic spindle regulation and coordination of mitotic processes (By similarity). May have a preferential role in regulating neurogenesis.,similarity:Contains 2 CH (calponin-homology) domains.,similarity:Contains 39 IQ domains.,subcellular location:The nuclear-cytoplasmic distribution could be regulated by the availability of calmodulin.,

Research Area

Image Data



Immunohistochemical analysis of paraffin-embedded human spleen tissue. 1,ASPM Rabbit Polyclonal Antibody was diluted at 1:200 (4° overnight) . 2, Sodium citrate pH 6.0 was used for antigen retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature,45min)