Datasheet for ABIN1385183

anti-MCPH1 antibody (AA 11-110)

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Overview

Quantity:	100 µL
Target:	MCPH1
Binding Specificity:	AA 11-110
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MCPH1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Microcephalin 1/BRIT1
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Dog
Purification:	Purified by Protein A.

Target Details

Target:	MCPH1

Target Details

Alternative Name:	Microcephalin 1/BRIT1 (MCPH1 Products)
Background:	Synonyms: BRCT repeat inhibitor of TERT expression 1, BRIT 1, FLJ12847, Hypothetical protein FLJ12847, MCPH 1, MCPH1, MCPH1_HUMAN, MCT antibody Microcephalin 1, Microcephalin-1, Microcephaly primary autosomal recessive 1. Background: Microcephalin modulates brain size and has been proliferating under strong positive selection for several thousand years, although the nature of the positive selection is poorly understood. Human Microcephalin contains three BRCA1 C-terminal (BRCT) domains and shares 57 % identity with its mouse ortholog, the most conserved regions being BRCT domains where there is 80 % identity. Predominant expression of human Microcephalin is observed in fetal brain, liver and kidney tissues and is expressed during neurogenesis in mice. Microcephalin displays significantly higher rates of protein evolution in primates than in rodents, this trend is most noticeable for the subset of genes associated with nervous system development. Microcephalin has a very young, single nucleotide, polymorphism haplotype associated with modern humans, this gene is presumably still evolving in Homo sapiens. It functions in DNA damage response and regulation of cell cycle checkpoints.
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months