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Rabbit Anti-CENPJ antibody

SL13835R

Product Name:	CENPJ
Chinese Name:	着丝粒蛋白J抗体
Alias:	CENP-J; CENPJ; CENPJ_HUMAN; Centromere protein J; Centrosomal P4.1-associated protein; CPAP; LAG-3-associated protein; LAP; LIP1; LYST-interacting protein 1; MCPH6.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	153kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CENPJ:351-450/1338
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a protein that belongs to the centromere protein family. During cell division, this protein plays a structural role in the maintenance of centrosome integrity and normal spindle morphology, and it is involved in microtubule disassembly at the centrosome. This protein can function as a transcriptional coactivator in the Stat5 signaling pathway, and also as a coactivator of NF-kappaB-mediated transcription, likely

via its interaction with the coactivator p300/CREB-binding protein. Mutations in this gene are associated with primary autosomal recessive microcephaly, a disorder characterized by severely reduced brain size and mental retardation. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Apr 2012]

Function:
Plays an important role in cell division and centrosome function by participating in centriole duplication. Inhibits microtubule nucleation from the centrosome.

Subcellular Location:
Cytoplasm > cytoskeleton > centrosome. Cytoplasm > cytoskeleton > centrosome > centriole. Localized within the center of microtubule asters. During centriole biogenesis, it is concentrated within the proximal lumen of both parental centrioles and procentrioles.

Post-translational modifications:
Phosphorylation at Ser-589 and Ser-595 by PLK2 is required for procentriole formation and centriole elongation. Phosphorylation by PLK2 oscillates during the cell cycle: it increases at G1/S transition and decreases during the exit from mitosis. Phosphorylation at Ser-595 is also mediated by PLK4 but is not a critical step in PLK4 function in procentriole assembly.

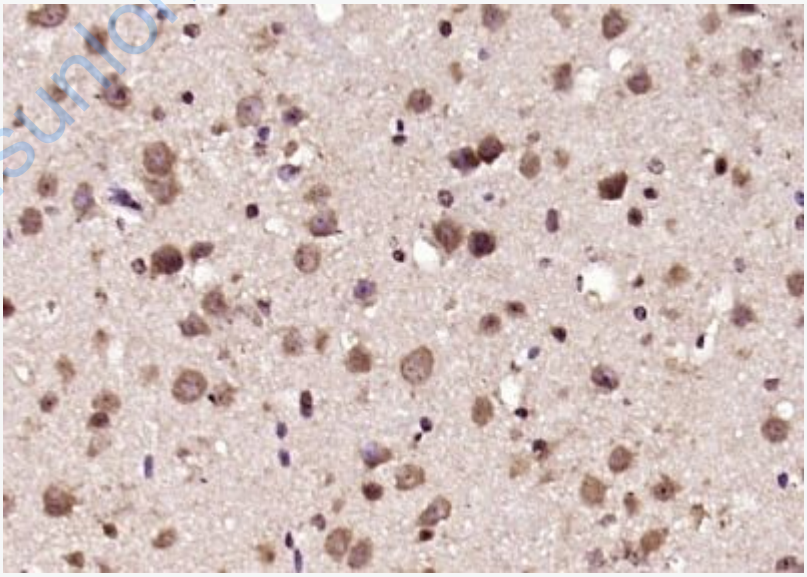
DISEASE:
Defects in CENPJ are the cause of microcephaly primary type 6 (MCPH6) [MIM:608393]. A disorder defined as a head circumference more than 3 standard deviations below the age-related mean. Brain weight is markedly reduced and the cerebral cortex is disproportionately small. Despite this marked 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.
Defects in CENPJ are the cause of Seckel syndrome type 4 (SCKL4) [MIM:613676]. SCKL4 is a rare autosomal recessive disorder characterized by proportionate dwarfism of prenatal onset associated with low birth weight, growth retardation, severe microcephaly with a bird-headed like appearance, and mental retardation.

Similarity:
Belongs to the TCP10 family.

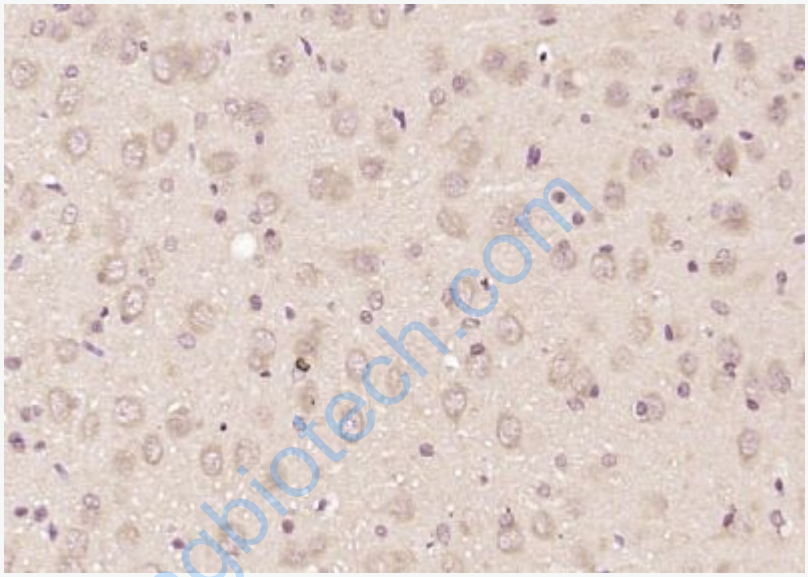
SWISS:
Q9HC77

Gene ID:
55835

Database links:

	Entrez Gene: 55835 Human Entrez Gene: 219103 Mouse Omim: 609279 Human SwissProt: Q9HC77 Human SwissProt: Q569L8 Mouse Unigene: 513379 Human Unigene: 533828 Human Unigene: 741581 Human Unigene: 212525 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C

for 30min; Antibody incubation with (CENPJ) Polyclonal Antibody, Unconjugated (SL13835R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CENPJ) Polyclonal Antibody, Unconjugated (SL13835R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.