abcam

Product datasheet

Anti-CENPJ antibody ab221134

2 References 1 Image

Overview

Product name	Anti-CENPJ antibody
Description	Rabbit polyclonal to CENPJ
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee
Immunogen	Recombinant fragment corresponding to Human CENPJ aa 700-850. Database link: **Q9HC77** Run BLAST with Run BLAST with
Positive control	BJ cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab221134 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

Target

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

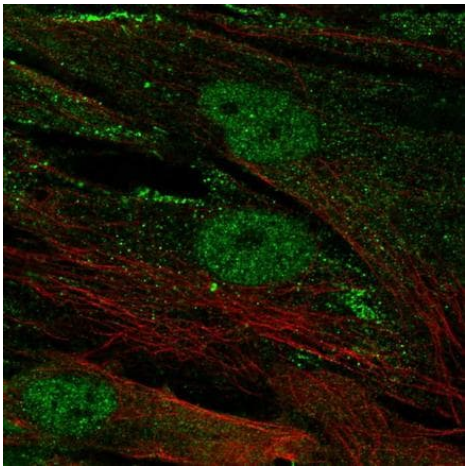
Involvement in disease Defects in CENPJ are the cause of microcephaly primary type 6 (MCPH6) [MIM:608393]. A disorder defined as a head circumference more than 3 standard deviations below the age-related mean. Brain weight is markedly reduced and the cerebral cortex is disproportionately small. Despite 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.

Sequence similarities Belongs to the TCP10 family.

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.

Cellular localization 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.

Images



Immunocytochemistry/ Immunofluorescence - Anti-CENPJ antibody (ab221134)

Immunofluorescent analysis of PFA-fixed, Triton X-100 permeabilized BJ cells labeling CENPJ with ab221134 at 4 µg/ml (green).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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