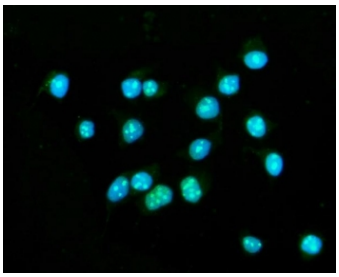
CENPB Antibody / Centromere protein B (RQ6699)

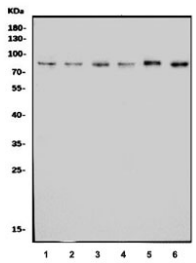
Catalog No.	Formulation	Size
RQ6699	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

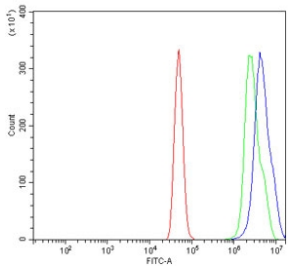
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P07199
Localization	Nuclear
Applications	Western blot: 1-2ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This CENPB antibody is available for research use only.



Immunofluorescent staining of FFPE human MCF7 cells with CENPB antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human 1) HeLa, 2) Jurkat, 3) A431, 4) HEK293, 5) MCF7 and 6) PC-3 cell lysate with CENPB antibody. Expected molecular weight: 65-80 kDa.



Flow cytometry testing of human A431 cells with CENPB antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CENPB antibody.

Description

Centromere protein B also known as major centromere autoantigen B is an autoantigen protein of the cell nucleus. In humans, centromere protein B is encoded by the CENPB gene. This gene product is a highly conserved protein that facilitates centromere formation. It is a DNA-binding protein that is derived from transposases of the pogo DNA transposon family. It contains a helix-loop-helix DNA binding motif at the N-terminus, and a dimerization domain at the C-terminus. The DNA binding domain recognizes and binds a 17-bp sequence (CENP-B box) in the centromeric alpha satellite DNA. This protein is proposed to play an important role in the assembly of specific centromere structures in interphase nuclei and on mitotic chromosomes. It is also considered a major centromere autoantigen recognized by sera from patients with anti-centromere antibodies.

Application Notes

Optimal dilution of the CENPB antibody should be determined by the researcher.

Immunogen

Amino acids HLEHDLVHVTRKNHA from the human protein were used as the immunogen for the CENPB antibody.

Storage

After reconstitution, the CENPB antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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