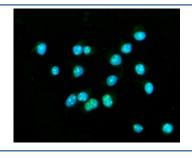


# **CENPB Antibody / Centromere protein B (RQ6699)**

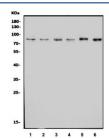
| Catalog No. | Formulation   | Size   |
|-------------|---|--------|
| RQ6699      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

# **Bulk quote request**

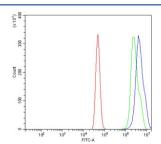
| Availability       | 1-3 business days   |
|--------------------|---|
| Species Reactivity | Human   |
| Format             | Antigen affinity purified   |
| Clonality          | Polyclonal (rabbit origin)  |
| Isotype            | Rabbit IgG  |
| Purity             | Antigen affinity purified   |
| 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.