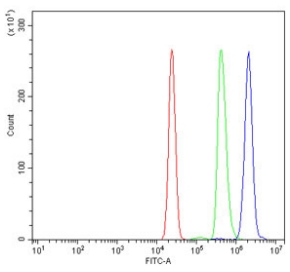
CENPI Antibody / Centromere protein I (RQ7043)

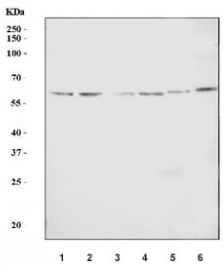
Catalog No.	Formulation	Size
RQ7043	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
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	Q92674
Applications	Western blot: 0.5-1 ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This CENPI antibody is available for research use only.



Flow cytometry testing of human U937 cells with CENPI antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CENPI antibody.



Western blot testing of 1) human 293T, 2) human HeLa, 3) human Jurkat, 4) human MCF7, 5) rat PC-12 and 6) mouse NIH 3T3 cell lysate with CENPI antibody. Predicted molecular weight: ~87 kDa (isoform 1) and ~60 kDa (isoform 2).

Description

Centromere protein I is a protein that in humans is encoded by the CENPI gene. This gene encodes a centromere protein that is a component of the CENPA-NAC (nucleosome-associated) complex. This complex is critical for accurate chromosome alignment and segregation and it ensures proper mitotic progression. This protein regulates the recruitment of kinetochore-associated proteins that are required to generate the spindle checkpoint signal. The product of this gene is involved in the response of gonadal tissues to follicle-stimulating hormone. Mutations in this gene may be involved in human X-linked disorders of gonadal development and gametogenesis. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 13.

Application Notes

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

Immunogen

Recombinant human CENPI protein (amino acids K120-C604) was used as the immunogen for the CENPI antibody.

Storage

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

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