

CENP-R (G-78): sc-101092

BACKGROUND

CENP-R (centromere protein-R), also known as CENPR, ITGB3BP (Integrin β 3 binding protein), β ₃-endonexin, NRIF3 (nuclear receptor-interacting factor 3) or TAP20, is a widely expressed protein that contains a DD1 or RepD1 domain and an LXXLL motif. Induced by estrogen, CENP-R is believed to function as a nuclear receptor co-activator. It also associates with the CENP-A-CAD complex which is involved in mitotic progression, the assembly of kinetochore proteins and chromosome segregation. A number of isoforms exist for CENP-R due to alternative splicing events. Isoform 1 localizes to the nucleus at the centromere; isoform 2, also known as EnL, En-L or long isoform, localizes to the nucleus; isoform 3, also known as EnS, En-S or short isoform, localizes predominantly to the nucleus but can also be found in the cytoplasm; and isoform 4 predominantly localizes to the cytoplasm. Isoform 3 of CENP-R binds to the cytoplasmic tail of Integrin β 3 and can activate Integrin α IIb/ β 3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ITGB3BP (human) mapping to 1p31.3.

SOURCE

CENP-R (G-78) is a mouse monoclonal antibody raised against recombinant CENP-R of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 100 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CENP-R (G-78) is recommended for detection of CENP-R of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CENP-R siRNA (h): sc-72862, CENP-R shRNA Plasmid (h): sc-72862-SH and CENP-R shRNA (h) Lentiviral Particles: sc-72862-V.

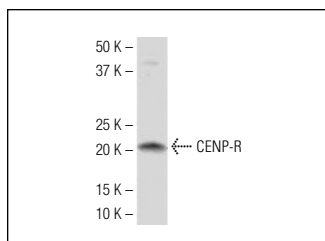
Molecular Weight of CENP-R short isoform: 13 kDa.

Molecular Weight of CENP-R long isoform: 20 kDa.

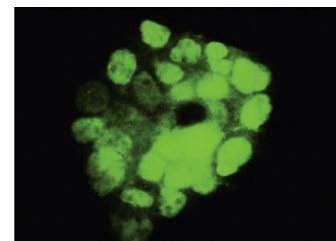
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



CENP-R (G-78): sc-101092. Western blot analysis of CENP-R expression in A-431 whole cell lysate.



CENP-R (G-78): sc-101092. Immunofluorescence staining of paraformaldehyde-fixed A-431 cells showing nuclear and cytoplasmic localization.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.