



Norpeg (N-20): sc-82262

BACKGROUND

Norpeg, also known as Ankycorbin or RAI14 (retinoic acid induced 14), is a 980 amino acid protein that localizes to the cytoplasm, the cytoskeleton and the cell cortex, and contains 7 ANK repeats. Expressed at high levels in testis, muscle and placenta, and at lower levels in liver, brain, lung, heart and intestine, Norpeg is thought to play a role in the maintenance and organization of the Actin cytoskeleton. Norpeg exists as three alternatively spliced isoforms that are encoded by a gene which maps to human chromosome 5. With 181 million base pairs encoding around 1,000 genes, chromosome 5 comprises about 6% of human genomic DNA. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm on chromosome 5 is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

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CHROMOSOMAL LOCATION

Genetic locus: RAI14 (human) mapping to 5p13.2; Rai14 (mouse) mapping to 15 A1.

STORAGE

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

SOURCE

Norpeg (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Norpeg of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82262 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Norpeg (N-20) is recommended for detection of Norpeg of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 Norpeg siRNA (h): sc-75947, Norpeg siRNA (m): sc-75948, Norpeg shRNA Plasmid (h): sc-75947-SH, Norpeg shRNA Plasmid (m): sc-75948-SH, Norpeg shRNA (h) Lentiviral Particles: sc-75947-V and Norpeg shRNA (m) Lentiviral Particles: sc-75948-V.

Molecular Weight of Norpeg: 110 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

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