

NY-REN-34 (D-15): sc-84540

BACKGROUND

NY-REN-34, also known as PHF11 (PHD finger protein 11), APY, BCAP, IGEL or IGER, is a 292 amino acid protein that contains one PHD-type zinc finger and exists as multiple alternatively spliced isoforms. Expressed in all normal tissues, including testis, liver, lung, placenta and small intestine, NY-REN-34 interacts with BRCA1 and may play a role in the susceptibility to atopy and asthma. The gene encoding NY-REN-34 maps to human chromosome 13, which houses over 400 genes and comprises nearly 4% of the human genome. Chromosome 13 houses key tumor suppressor genes, including BRCA2 and RB1, which are associated with breast cancer susceptibility and retinoblastoma, respectively. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

REFERENCES

1. Scanlan, M.J., et al. 1999. Antigens recognized by autologous antibody in patients with renal-cell carcinoma. *Int. J. Cancer* 83: 456-464.
2. Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 607796. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Blumenthal, M.N. 2005. The role of genetics in the development of asthma and atopy. *Curr. Opin. Allergy Clin. Immunol.* 5: 141-145.
4. Jang, N., et al. 2005. Polymorphisms within the PHF11 gene at chromosome 13q14 are associated with childhood atopic dermatitis. *Genes Immun.* 6: 262-264.
5. Clarke, E., et al. 2008. Functional characterization of the atopy-associated gene PHF11. *J. Allergy Clin. Immunol.* 121: 1148-1154.

CHROMOSOMAL LOCATION

Genetic locus: PHF11 (human) mapping to 13q14.3.

SOURCE

NY-REN-34 (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NY-REN-34 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-84540 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA)

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 or our catalog for detailed protocols and support products.

APPLICATIONS

NY-REN-34 (D-15) is recommended for detection of NY-REN-34 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 NY-REN-34 siRNA (h): sc-75985, NY-REN-34 shRNA Plasmid (h): sc-75985-SH and NY-REN-34 shRNA (h) Lentiviral Particles: sc-75985-V.

Molecular Weight of NY-REN-34: 33 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.