SANTA CRUZ BIOTECHNOLOGY, INC.

YTHDF2 (H-65): sc-135353

BACKGROUND

The YTH domain family protein family (YTHDF) includes YTHDF1, YTHDF2 and TYHDF3. YTHDF2 (YTH domain family, member 2), also designated high-glucose-regulated protein 8, CLL-associated antigen KW-14 or renal carcinoma antigen NY-REN-2, is a 579 amino acid protein that also contains one YTH domain and exists as 2 alternatively spliced isoforms. Expressed in pancreas, testis and placenta, YTHDF2 has been identified as a translocation partner gene for RUNX1 and is encoded by a gene mapping to human chromosome 1p35.3. Human chromosome 1 spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: YTHDF2 (human) mapping to 1p35.3; Ythdf2 (mouse) mapping to 4 D2.3.

SOURCE

YTHDF2 (H-65) is a rabbit polyclonal antibody raised against amino acids 181-245 mapping within an internal region of YTHDF2 of human origin.

RESEARCH USE

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

PRODUCT

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

APPLICATIONS

YTHDF2 (H-65) is recommended for detection of YTHDF2 of mouse, rat and 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); non cross-reactive with YTHDF1 or YTHDF3.

YTHDF2 (H-65) is also recommended for detection of YTHDF2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for YTHDF2 siRNA (h): sc-78661, YTHDF2 siRNA (m): sc-155424, YTHDF2 shRNA Plasmid (h): sc-78661-SH, YTHDF2 shRNA Plasmid (m): sc-155424-SH, YTHDF2 shRNA (h) Lentiviral Particles: sc-78661-V and YTHDF2 shRNA (m) Lentiviral Particles: sc-155424-V.

Molecular Weight of YTHDF2: 62 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SK-MEL-28 cell lysate: sc-2236 or CCD-1064Sk cell lysate: sc-2263.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.