

YTHDF3 (G-16): sc-87503

BACKGROUND

The YTH domain family protein family (YTHDF) includes YTHDF1, YTHDF2 and YTHDF3. YTHDF1, also designated Dermatomyositis associated with cancer putative autoantigen 1 (DACA-1), is a 559 amino acid protein that contains one YTH domain, a potential RNA binding domain. YTHDF2, 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. YTHDF3 is a 585 amino acid protein that also contains one YTH domain. The gene encoding YTHDF3 maps to chromosome 8, which encodes about 800 genes. Translocation of portions of chromosome 8 with amplifications of the c-Myc gene are found in some leukemias and lymphomas, and typically associated with a poor prognosis. Portions of chromosome 8 have been linked to schizophrenia and bipolar disorder.

CHROMOSOMAL LOCATION

Genetic locus: YTHDF3 (human) mapping to 8q12.3; Ythdf3 (mouse) mapping to 3 A1.

SOURCE

YTHDF3 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of YTHDF3 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-87503 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.

APPLICATIONS

YTHDF3 (G-16) is recommended for detection of YTHDF3 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.

YTHDF3 (G-16) is also recommended for detection of YTHDF3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for YTHDF3 siRNA (h): sc-77724, YTHDF3 siRNA (m): sc-155425, YTHDF3 shRNA Plasmid (h): sc-77724-SH, YTHDF3 shRNA Plasmid (m): sc-155425-SH, YTHDF3 shRNA (h) Lentiviral Particles: sc-77724-V and YTHDF3 shRNA (m) Lentiviral Particles: sc-155425-V.

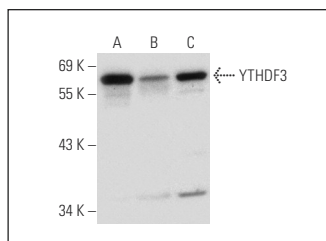
Molecular Weight of YTHDF3: 64 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SK-MEL-28 cell lysate: sc-2236 or Caki-1 cell lysate: sc-2224.

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.

DATA



YTHDF3 (G-16): sc-87503. Western blot analysis of YTHDF3 expression in HeLa (A), Caki-1 (B) and SK-MEL-28 (C) whole cell lysates.

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.


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Try **YTHDF3 (F-2): sc-377119**, our highly recommended monoclonal alternative to YTHDF3 (G-16).