

## YTHDF3 (A-14): sc-87502

### 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.

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### RESEARCH USE

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

### CHROMOSOMAL LOCATION

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

### SOURCE

YTHDF3 (A-14) 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-87502 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

YTHDF3 (A-14) 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), 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 (A-14) 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.

### 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.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.