THOC6 (L-81): sc-101177

BACKGROUND

WD-repeats are motifs that are found in a variety of proteins and are characterized by a conserved core of 40-60 amino acids that commonly form a tertiary propeller structure. While proteins that contain WD-repeats participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms concerning chromatin assembly, cell cycle control, signal transduction, RNA processing, apoptosis and vesicular trafficking. THOC6 (THO complex 6 homolog), also known as WDR58 (WD-repeat-containing protein 58) is a 341 amino acid protein that contains seven WD-repeats and belongs to the WD-repeat THOC6 family. THOC6 is a component of the THO/TREX complex that is recruited to transcribed genes and travels along with RNA polymerase II (Pol II) during elongation, coupling elongating Pol II with RNA splicing and export factors. Multiple isoforms of THOC6 exist due to alternative splicing events.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: THOC6 (human) mapping to 16p13.3; THOC6 (mouse) mapping to 17 A3.3.

SOURCE

THOC6 (L-81) is a mouse monoclonal antibody raised against recombinant THOC6 of human origin.

PRODUCT

Each vial contains 100 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

THOC6 (L-81) is recommended for detection of THOC6 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), immunohistochemistry (including paraffin-embedded sections) (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 THOC6 siRNA (h): sc-76656, THOC6 siRNA (m): sc-76657, THOC6 shRNA Plasmid (h): sc-76656-SH, THOC6 shRNA Plasmid (m): sc-76657-SH, THOC6 shRNA (h) Lentiviral Particles: sc-76656-V and THOC6 shRNA (m) Lentiviral Particles: sc-76657-V.

Molecular Weight of THOC6: 38 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

DATA

![Western blot analysis of THOC6 expression in A-431 whole cell lysate.](image)

![Immunoperoxidase staining of formalin-fixed, paraffin-embedded human small intestine tissue showing nuclear and cytoplasmic localization.](image)

STORAGE

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

RESEARCH USE

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