

# NUDT5 (K-17): sc-74756

## BACKGROUND

NUDT5 (nudix (nucleoside diphosphate linked moiety X)-type motif 5), whose alternative names include YSA1, YSA1H, hYSAH1, nudix motif 5, ADP-sugar pyrophosphatase or HSPC115, is a 219 amino acid protein belonging to the nudix hydrolase family. NUDT5 hydrolyzes ADP-ribose and ADP-mannose in the presence of magnesium, and also hydrolyzes other nucleotide sugars with low activity such as ADP-glucose and diadenosine diphosphate. As a nudix hydrolase, NUDT5 contains a central nudix motif and functions to eliminate toxic nucleotide metabolites from the cell while maintaining the levels of signaling nucleotides. NUDT5 is widely expressed but is most abundant in liver as a homodimer.

## CHROMOSOMAL LOCATION

Genetic locus: NUDT5 (human) mapping to 10p13; Nudt5 (mouse) mapping to 2 A1.

## SOURCE

NUDT5 (K-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NUDT5 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-74756 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

NUDT5 (K-17) is recommended for detection of NUDT5 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), 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).

NUDT5 (K-17) is also recommended for detection of NUDT5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for NUDT5 siRNA (h): sc-75973, NUDT5 siRNA (m): sc-75974, NUDT5 shRNA Plasmid (h): sc-75973-SH, NUDT5 shRNA Plasmid (m): sc-75974-SH, NUDT5 shRNA (h) Lentiviral Particles: sc-75973-V and NUDT5 shRNA (m) Lentiviral Particles: sc-75974-V.

Molecular Weight (predicted) of NUDT5: 24 kDa.

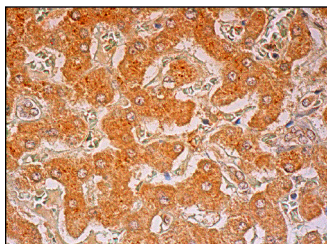
Molecular Weight (observed) of NUDT5: 34 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or mouse liver extract: sc-2256.

## 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



NUDT5 (K-17): sc-74756. Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tissue showing cytoplasmic staining of hepatocytes.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **NUDT5 (E-4): sc-398644** or **NUDT5 (FT-98): sc-134405**, our highly recommended monoclonal alternatives to NUDT5 (K-17).