

# UGGT1 (N-15): sc-47562

## BACKGROUND

UDP-glucose glycoprotein glucosyltransferase 1 (UGGT1 or HUGT1), belongs to the glycosyltransferase 8 family of proteins. UGGT1 is involved in glycosylation pathways and induced by tunicamycin and A23187. Its main function is to recognize glycoproteins with folding defects. It reglucosylates single N-glycans near the misfolded area, flagging these proteins for recycling to the endoplasmic reticulum (ER) followed by refolding or degradation. UGGT1, which localizes to the ER and to the ER-Golgi intermediate compartment, is primarily expressed in skeletal muscle, pancreas, brain and kidney tissues.

## CHROMOSOMAL LOCATION

Genetic locus: UGGT1 (human) mapping to 2q14.3; Ugg1 (mouse) mapping to 1 B.

## SOURCE

UGGT1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of UGGT1 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-47562 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.

## RESEARCH USE

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

## APPLICATIONS

UGGT1 (N-15) is recommended for detection of UGGT1 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); may cross-react with UGGT2.

UGGT1 (N-15) is also recommended for detection of UGGT1 in additional species, including canine and bovine.

Suitable for use as control antibody for UGGT1 siRNA (h): sc-60098, UGGT1 siRNA (m): sc-60096, UGGT1 siRNA (r): sc-60097, UGGT1 shRNA Plasmid (h): sc-60098-SH, UGGT1 shRNA Plasmid (m): sc-60096-SH, UGGT1 shRNA Plasmid (r): sc-60097-SH, UGGT1 shRNA (h) Lentiviral Particles: sc-60098-V, UGGT1 shRNA (m) Lentiviral Particles: sc-60096-V and UGGT1 shRNA (r) Lentiviral Particles: sc-60097-V.

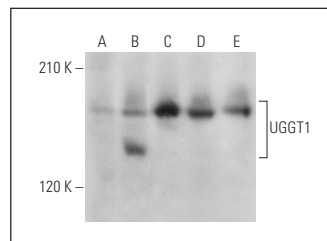
Molecular Weight of UGGT1: 170 kDa.

Positive Controls: UGGT1 (h): 293T Lysate: sc-115712, Jurkat whole cell lysate: sc-2204 or MCF7 whole cell lysate: sc-2206.

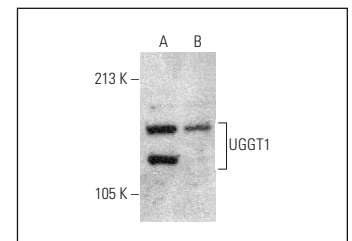
## RECOMMENDED SECONDARY REAGENTS

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



UGGT1 (N-15): sc-47562. Western blot analysis of UGGT1 expression in non-transfected 293T: sc-117752 (A), human UGGT1 transfected 293T: sc-115712 (B), Hep G2 (C), HL-60 (D) and PANC-1 (E) whole cell lysates.



UGGT1 (N-15): sc-47562. Western blot analysis of UGGT1 expression in MCF7 (A) and Jurkat (B) whole cell lysates.

## PROTOCOLS

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Try **UGGT1 (H-9): sc-374565**, our highly recommended monoclonal alternative to UGGT1 (N-15).