

UROS (FL-265): sc-134759

BACKGROUND

Uroporphyrinogen-III synthase (UROS), also designated hydroxymethylbilane hydrolyase, is a 265-amino acid ubiquitously expressed protein that is predominantly found in skeletal muscle, heart muscle, the caudate nucleus, and the amygdala. UROS is the fourth enzyme in the human heme biosynthetic pathway and is responsible for the conversion of hydroxymethylbilane to the cyclic tetrapyrrole, uroporphyrinogen III. UROS is a monomer involved in popyrin biosynthesis by the Shemin pathway. Defects in the UROS gene can cause molecular lesions that lead to the autosomal recessive Gunther disease, also known as congenital erythropoietic porphyria (CEP). CEP is characterized by accumulation of uroporphyrin I in the bone marrow, peripheral blood, and other organs, often causing death early in adult life.

CHROMOSOMAL LOCATION

Genetic locus: UROS (human) mapping to 10q26.13; Uros (mouse) mapping to 7 F3.

SOURCE

UROS (FL-265) is a rabbit polyclonal antibody raised against amino acids 1-265 representing full length UROS 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.

STORAGE

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

APPLICATIONS

UROS (FL-265) is recommended for detection of uroporphyrinogen-III synthase (UROS) of human and, to a lesser extent, mouse and rat 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).

UROS (FL-265) is also recommended for detection of Uroporphyrinogen-III synthase (UROS) in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for UROS siRNA (h): sc-61760, UROS siRNA (m): sc-61761, UROS shRNA Plasmid (h): sc-61760-SH, UROS shRNA Plasmid (m): sc-61761-SH, UROS shRNA (h) Lentiviral Particles: sc-61760-V and UROS shRNA (m) Lentiviral Particles: sc-61761-V.

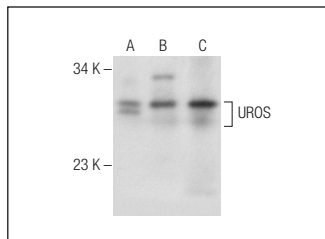
Molecular Weight of UROS: 30 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, HEK293 whole cell lysate: sc-45136 or K-562 whole cell lysate: sc-2203.

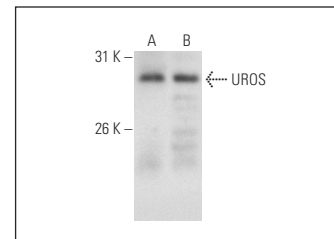
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



UROS (FL-265): sc-134759. Western blot analysis of UROS expression in mouse colon (A), mouse brain (B) and mouse thyroid (C) tissue extracts.



UROS (FL-265): sc-134759. Western blot analysis of UROS expression in mouse thyroid (A) and mouse liver (B) tissue extracts.

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.



Try **UROS (A-8): sc-365877** or **UROS (G-9): sc-365120**, our highly recommended monoclonal alternatives to UROS (FL-265).