

Glucosidase II β (H-195): sc-10774

BACKGROUND

Trimming of glucoses from N-linked core glycans on newly synthesized glycoproteins occurs sequentially through the action of Glucosidases I and II in the endoplasmic reticulum (ER). Glucosidase II is an ER-localized enzyme that contains α and β subunits (Glucosidase II α and Glucosidase II β) which form a defined heterodimeric complex. Glucosidase II α is the catalytic core of the enzyme and can function independently of the β subunit. The sequence of Glucosidase II β encodes protein rich in glutamic and aspartic acid with a putative ER retention signal (HDEL) at the C-terminus. The phosphorylated form of Glucosidase II β is localized in the plasma membrane and is highly expressed in FGF-stimulated fibroblasts and epidermal carcinoma cells. Glucosidase II β was first purified from a human carcinoma cell line as a potential substrate for protein kinase C. Through the HDEL signal at the C-terminus, Glucosidase II β retains the complete complex in the ER.

CHROMOSOMAL LOCATION

Genetic locus: PRKCSH (human) mapping to 19p13.2; PrkcsH (mouse) mapping to 9 A3.

SOURCE

Glucosidase II β (H-195) is a rabbit polyclonal antibody raised against amino acids 333-527 of Glucosidase II β of human origin.

PRODUCT

Each vial contains 200 μ g 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.

RESEARCH USE

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

APPLICATIONS

Glucosidase II β (H-195) is recommended for detection of the β subunit of Glucosidase II of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 Glucosidase II β siRNA (h): sc-29598, Glucosidase II β siRNA (m): sc-29599, Glucosidase II β shRNA Plasmid (h): sc-29598-SH, Glucosidase II β shRNA Plasmid (m): sc-29599-SH, Glucosidase II β shRNA (h) Lentiviral Particles: sc-29598-V and Glucosidase II β shRNA (m) Lentiviral Particles: sc-29599-V.

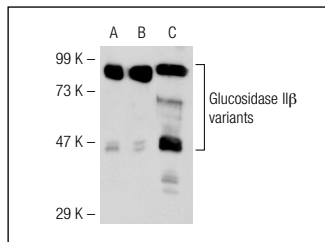
Molecular Weight of Glucosidase II β : 80-90 kDa.

Positive Controls: Glucosidase II β (m): 293T Lysate: sc-120511, K-562 whole cell lysate: sc-2203 or HeLa whole cell lysate: sc-2200.

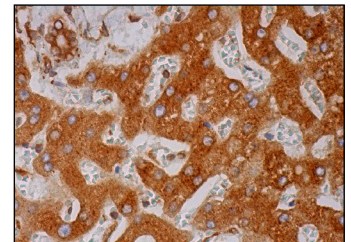
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Glucosidase II β (H-195): sc-10774. Western blot analysis of Glucosidase II β expression in non-transfected 293T: sc-117752 (A), mouse Glucosidase II β transfected 293T: sc-120511 (B) and K-562 (C) whole cell lysates.



Glucosidase II β (H-195): sc-10774. Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tissue showing cytoplasmic staining of hepatocytes and bile duct cells.

SELECT PRODUCT CITATIONS

- Janssen, M.J., et al. 2011. Secondary, somatic mutations might promote cyst formation in patients with autosomal dominant polycystic liver disease. *Gastroenterology* 141: 2056-2063.
- Yang, J., et al. 2011. Deficiency of hepatocystin induces autophagy through an mTOR-dependent pathway. *Autophagy* 7: 748-759.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **Glucosidase II β (H-4): sc-374457** or **Glucosidase II β (D-1): sc-46685**, our highly recommended monoclonal alternatives to Glucosidase II β (H-195).