

UCH-L5 (H-110): sc-98673

BACKGROUND

As a component of the 19S regulatory complex of the 26S Proteasome, UCH-L5 (ubiquitin carboxyl-terminal hydrolase isozyme L5), also known as UCH37, is a 329 amino acid protein that functions to edit polyubiquitinated protein substrates. Since UCH-L5 has the potential to rescue ubiquitinated proteins, including oncogenic proteins, from proteasomal degradation, it is likely that deregulation of UCH-L5 may affect tumor growth. Through associations with Smad7, UCH-L5 can dramatically upregulate TGF β -dependent gene expression by deubiquitinating and stabilizing TGF β RI. Also, since overexpression of UCH-L5 and other deubiquitinating enzymes has been observed in many cancer cell lines, inhibition of these proteins may be of some interest in designing therapies for cancer treatment. There are four isoforms of UCH-L5 that exist as a result of alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: UCHL5 (human) mapping to 1q31.2; Uchl5 (mouse) mapping to 1 F.

SOURCE

UCH-L5 (H-110) is a rabbit polyclonal antibody raised against amino acids 220-329 mapping at the C-terminus of UCH-L5 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

UCH-L5 (H-110) is recommended for detection of UCH-L5 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

UCH-L5 (H-110) is also recommended for detection of UCH-L5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for UCH-L5 siRNA (h): sc-76797, UCH-L5 siRNA (m): sc-76798, UCH-L5 shRNA Plasmid (h): sc-76797-SH, UCH-L5 shRNA Plasmid (m): sc-76798-SH, UCH-L5 shRNA (h) Lentiviral Particles: sc-76797-V and UCH-L5 shRNA (m) Lentiviral Particles: sc-76798-V.

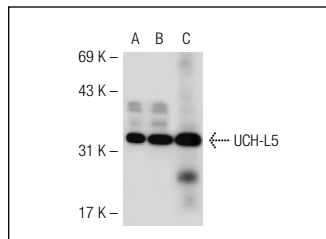
Molecular Weight of UCH-L5: 38 kDa.

Positive Controls: UCH-L5 (h): 293 Lysate: sc-113202, UCH-L5 (m): CHO Lysate: sc-110437 or mouse brain extract: sc-2253.

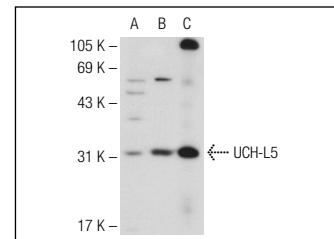
RECOMMENDED SECONDARY REAGENTS

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



UCH-L5 (H-110): sc-98673. Western blot analysis of UCH-L5 expression in non-transfected: sc-110760 (A) and human UCH-L5 transfected: sc-113202 (B) 293 whole cell lysates and mouse brain tissue extract (C).



UCH-L5 (H-110): sc-98673. Western blot analysis of UCH-L5 expression in non-transfected: sc-117750 (A) and mouse UCH-L5 transfected: sc-110437 (B) CHO whole cell lysates and mouse brain tissue extract (C).

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **UCH-L5 (C-4): sc-271002**, our highly recommended monoclonal alternative to UCH-L5 (H-110).