

UBL3 (N-14): sc-84651

BACKGROUND

Ubiquitin is a 77 amino acid protein that targets proteins for degradation by the 26S Proteasome. Ubiquitin-like proteins are not directly involved in protein degradation, but appear to have many mechanistic similarities with the ubiquitin pathway. UBL3 (ubiquitin-like protein 3), also known as membrane-anchored ubiquitin-fold protein (MUB) or PNSC1, is a 117 amino acid membrane protein belonging to the ubiquitin-like family. Highly conserved between species, UBL3 contains two potential N-glycosylation sites, a potential protein kinase C phosphorylation site and a potential C-terminal prenylation site. The gene encoding UBL3 is localized to chromosome 13q12.3.

REFERENCES

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- Chadwick, B.P., Kidd, T., Sgouros, J., Ish-Horowicz, D. and Frischauf, A.M. 1999. Cloning, mapping and expression of UBL3, a novel ubiquitin-like gene. *Gene* 233: 189-195.
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- Segref, A. and Hoppe, T. 2009. Think locally: control of ubiquitin-dependent protein degradation in neurons. *EMBO Rep.* 10: 44-50.
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CHROMOSOMAL LOCATION

Genetic locus: UBL3 (human) mapping to 13q12.3; Ubl3 (mouse) mapping to 5 G3.

SOURCE

UBL3 (N-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of UBL3 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84651 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

UBL3 (N-14) is recommended for detection of UBL3 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).

Suitable for use as control antibody for UBL3 siRNA (h): sc-76794, UBL3 siRNA (m): sc-154863, UBL3 shRNA Plasmid (h): sc-76794-SH, UBL3 shRNA Plasmid (m): sc-154863-SH, UBL3 shRNA (h) Lentiviral Particles: sc-76794-V and UBL3 shRNA (m) Lentiviral Particles: sc-154863-V.

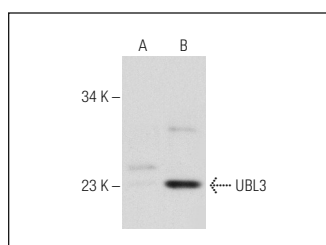
Molecular Weight of UBL3: 13 kDa.

Positive Controls: UBL3 (m): 293T Lysate: sc-124425 or mouse pancreas extract: sc-364244.

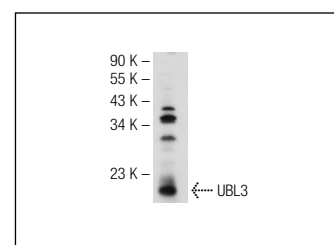
RECOMMENDED SECONDARY REAGENTS

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



UBL3 (N-14): sc-84651. Western blot analysis of UBL3 expression in non-transfected: sc-117752 (A) and mouse UBL3 transfected: sc-124425 (B) 293T whole cell lysates.



UBL3 (N-14): sc-84651. Western blot analysis of UBL3 expression in mouse pancreas tissue extract.

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.