

UBTD1 (K-14): sc-165855

BACKGROUND

Ubiquitin (Ub) is among the most phylogenetically conserved proteins known. The primary function of this small, 76 amino acid protein is to clear abnormal, foreign and improperly folded proteins by targeting them for degradation by the 26S proteasome. Many ubiquitin-like proteins function as post-translational protein modifiers, such as members of the SUMO protein family, however some ubiquitin-like proteins regulate protein-protein interactions and cell cycle events, thereby functioning outside of the traditional ubiquitination pathway. UBTD1 (ubiquitin domain-containing protein 1) is a 227 amino acid protein containing one C-terminal ubiquitin-like (UBQ) domain. With only one UBQ domain, it is likely that UBTD1 is capable of conjugation to other proteins and mostly functions in similar ways to ubiquitin in the modification of post-translational proteins.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: UBTD1 (human) mapping to 10q24.1; Ubt1 (mouse) mapping to 19 C3.

SOURCE

UBTD1 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of UBTD1 of human origin.

STORAGE

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

PROTOCOLS

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

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-165855 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

UBTD1 (K-14) is recommended for detection of UBTD1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with UBTD2.

UBTD1 (K-14) is also recommended for detection of UBTD1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for UBTD1 siRNA (h): sc-90329, UBTD1 siRNA (m): sc-154877, UBTD1 shRNA Plasmid (h): sc-90329-SH, UBTD1 shRNA Plasmid (m): sc-154877-SH, UBTD1 shRNA (h) Lentiviral Particles: sc-90329-V and UBTD1 shRNA (m) Lentiviral Particles: sc-154877-V.

Molecular Weight of UBTD1: 26 kDa.

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) 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.

RESEARCH USE

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