

UBTD2 (Y-34): sc-100604

BACKGROUND

UBTD2 (ubiquitin domain containing 2), also known as DCUBP (dendritic cell-derived ubiquitin-like protein), DC-UbP or SB72, is a 234 amino acid cytoplasmic and mitochondrial ubiquitin-like (Ubl) protein that contains one C-terminal Ubl domain. Ubl proteins are involved in a variety of cellular processes, including DNA repair, protein sorting, apoptosis, protein degradation, cell division and autophagy. Predominantly expressed in dendritic cells and detected at high levels in tumor cell lines, UBTD2 has been implicated in apoptosis, cellular differentiation and tumorigenesis. The Ubl domain of UBTD2 is 55% similar and 28.6% identical to the amino acid sequence of ubiquitin, but it lacks the Gly-Gly motif that is essential for ubiquitination. As its Ubl domain does not actively ubiquitinate proteins, UBTD2 is believed to function as a shuttle factor involved in the ubiquitin system.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: UBTD2 (human) mapping to 5q35.1.

SOURCE

UBTD2 (Y-34) is a mouse monoclonal antibody raised against recombinant UBTD2 of human origin.

PRODUCT

Each vial contains 50 µg IgG₁ in 500 µl PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

UBTD2 (Y-34) is recommended for detection of UBTD2 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for UBTD2 siRNA (h): sc-91799, UBTD2 shRNA Plasmid (h): sc-91799-SH and UBTD2 shRNA (h) Lentiviral Particles: sc-91799-V.

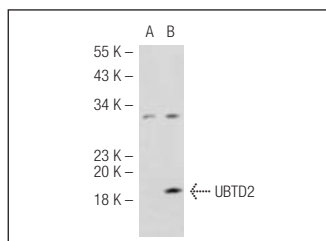
Molecular Weight of UBTD2: 26 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201 or UBTD2 (h): 293T Lysate: sc-113994.

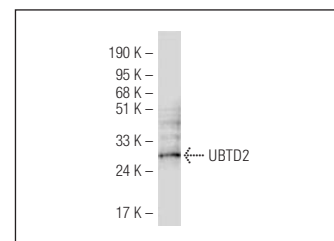
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (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).

DATA



UBTD2 (Y-34): sc-100604. Western blot analysis of UBTD2 expression in non-transfected: sc-117752 (A) and human UBTD2 transfected: sc-113994 (B) 293T whole cell lysates.



UBTD2 (Y-34): sc-100604. Western blot analysis of UBTD2 expression in A-431 whole cell lysate.

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.

PROTOCOLS

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