

# UBTD2 (V-13): sc-107125

## 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; Ubt2 (mouse) mapping to 11 A4.

## SOURCE

UBTD2 (V-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of UBTD2 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.

## 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-107125 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

UBTD2 (V-13) is recommended for detection of UBTD2 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).

UBTD2 (V-13) is also recommended for detection of UBTD2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for UBTD2 siRNA (h): sc-91799, UBTD2 siRNA (m): sc-154878, UBTD2 shRNA Plasmid (h): sc-91799-SH, UBTD2 shRNA Plasmid (m): sc-154878-SH, UBTD2 shRNA (h) Lentiviral Particles: sc-91799-V and UBTD2 shRNA (m) Lentiviral Particles: sc-154878-V.

Molecular Weight of UBTD2: 26 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.