# VDUP1 (m): 293T Lysate: sc-124549



The Power to Question

## **BACKGROUND**

The gene encoding vitamin  $D_3$  upregulated protein 1 (VDUP1) is upregulated by 1,25(OH)<sub>2</sub>D<sub>3</sub> in response to various stresses, including Ros, UV and heat shock. The transcription factor HSF may be involved in this regulation. VDUP1 also functions as a natural antagonist of TRX, and displays tumor-suppressive activity by inducing cell cycle arrest at the  $G_0/G_1$  phase. The presence of VDUP1 is required for CD122 expression and natural killer (NK) cell maturation, but its effect is minimal during the development of T and B cells. The gene encoding human VDUP1 maps to chromosome 1q21.1, and its protein product shows ubiquitous expression in various tissues and localizes to the cytoplasm. VDUP1 may also be a useful therapeutic target for melanoma.

#### **REFERENCES**

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- 7. Song, H., et al. 2003. Vitamin  $D_3$  upregulating protein 1 (VDUP1) antisense DNA regulates tumorigenicity and melanogenesis of murine melanoma cells via regulating the expression of Fas ligand and reactive oxygen species. Immunol. Lett. 86: 235-247.
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- Simmons, D.G., et al. 2004. Rat endometrial VDUP1 expression: changes related to sensitization for the decidual cell reaction and hormonal control. Reproduction 127: 475-482.

## **CHROMOSOMAL LOCATION**

Genetic locus: Txnip (mouse) mapping to 3 F2.1.

## **PRODUCT**

VDUP1 (m): 293T Lysate represents a lysate of mouse VDUP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

#### **RESEARCH USE**

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

## **APPLICATIONS**

VDUP1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive VDUP1 antibodies. Recommended use: 10-20 µl per lane.

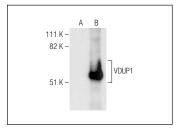
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

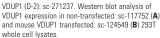
VDUP1 (D-2): sc-271237 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse VDUP1 expression in VDUP1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

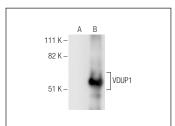
## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

#### DATA







VDUP1 (H-12): sc-271238. Western blot analysis of VDUP1 expression in non-transfected: sc-117752 (A) and mouse VDUP1 transfected: sc-124549 (B) 293T whole cell lysates.

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

#### **PROTOCOLS**

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