

## UEV3 (H-72): sc-292066

### BACKGROUND

UEV3 (ubiquitin-conjugating enzyme E2 variant 3), also known as EV and lactate/malate dehydrogenase domain-containing protein, is a 471 amino acid protein that contains one UEV (ubiquitin E2 variant) domain, which typically interacts with ubiquitin. UEV3 is thought to be a paralogue of tsg 101, a protein that exerts regulatory effects on E2 activity in cellular ubiquitination processes. With amino-terminal homology to the catalytic domain of ubiquitin-conjugating enzymes, it is thought that UEV3 may function as a negative regulator of polyubiquitination. UEV3 is expressed in various colon carcinoma cell lines, carcinomas of the uterine cervix and peripheral blood leukocytes as well as normal colon and cervical epithelium.

### REFERENCES

- Sancho, E., et al. 1998. Role of UEV-1, an inactive variant of the E2 ubiquitin-conjugating enzymes, in *in vitro* differentiation and cell cycle behavior of HT-29-M6 intestinal mucosecretory cells. *Mol. Cell. Biol.* 18: 576-589.
- Kloor, M., et al. 2002. Identification and characterization of UEV3, a human cDNA with similarities to inactive E2 ubiquitin-conjugating enzymes. *Biochim. Biophys. Acta* 1579: 219-224.
- Sundquist, W.I., et al. 2004. Ubiquitin recognition by the human TSG101 protein. *Mol. Cell* 13: 783-789.
- Andersen, K.M., et al. 2005. Ubiquitin-binding proteins: similar, but different. *Essays Biochem.* 41: 49-67.
- Palencia, A., et al. 2006. Structure of human TSG101 UEV domain. *Acta Crystallogr. D Biol. Crystallogr.* 62: 458-464.
- Hurley, J.H., et al. 2006. Ubiquitin-binding domains. *Biochem. J.* 399: 361-372.
- Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 610985. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

### CHROMOSOMAL LOCATION

Genetic locus: UEVLD (human) mapping to 11p15.1; Uevld (mouse) mapping to 7 B4.

### SOURCE

UEV3 (H-72) is a rabbit polyclonal antibody raised against amino acids 228-299 mapping within an internal region of UEV3 of human origin.

### PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

### 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.

### APPLICATIONS

UEV3 (H-72) is recommended for detection of UEV3 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).

UEV3 (H-72) is also recommended for detection of UEV3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for UEV3 siRNA (h): sc-96539, UEV3 siRNA (m): sc-154889, UEV3 shRNA Plasmid (h): sc-96539-SH, UEV3 shRNA Plasmid (m): sc-154889-SH, UEV3 shRNA (h) Lentiviral Particles: sc-96539-V and UEV3 shRNA (m) Lentiviral Particles: sc-154889-V.

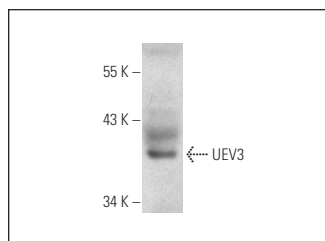
Molecular Weight of UEV3: 42 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

### 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (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) 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<sup>™</sup> Mounting Medium: sc-24941.

### DATA



UEV3 (H-72): sc-292066. Western blot analysis of UEV3 expression in MCF7 whole cell lysate.

### PROTOCOLS

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