

# UBE1L (S-18): sc-54440

## BACKGROUND

The ubiquitin activating enzyme E1 (UBE1) catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation. UBE1 activates ubiquitin by first adenylating (with ATP) its carboxy-terminal glycine residue and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a ubiquitin-E1 thioester and a free AMP. UBE1 is an example of an X-Y homologous gene, which is X-linked with a distinct Y-linked gene in many mammals. UBE1L (ubiquitin-activating enzyme E1 homolog), also known as UBA7 (ubiquitin-like modifier-activating enzyme 7) or UBE2, is a 1,011 amino acid homolog of UBE1. Like UBE1, UBE1L functions in the activation of ubiquitin through ATP-dependent adenylation. UBE1L is expressed in tumor cells and is a retinoid target that, through conjugation with ISG15 (interferon-induced 15 kDa protein), triggers degradation and apoptosis in acute promyelocytic leukemia.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: UBA7 (human) mapping to 3p21.31; Ube1l (mouse) mapping to 9 F2.

## SOURCE

UBE1L (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of UBE1L of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-54440 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

UBE1L (S-18) is recommended for detection of ubiquitin-activating enzyme E1 homolog of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

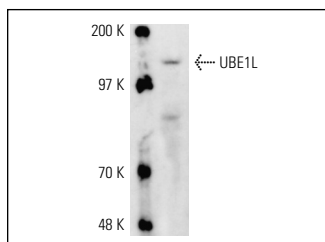
UBE1L (S-18) is also recommended for detection of ubiquitin-activating enzyme E1 homolog in additional species, including canine.

Suitable for use as control antibody for UBE1L siRNA (h): sc-106657, UBE1L siRNA (m): sc-77414, UBE1L shRNA Plasmid (h): sc-106657-SH, UBE1L shRNA Plasmid (m): sc-77414-SH, UBE1L shRNA (h) Lentiviral Particles: sc-106657-V and UBE1L shRNA (m) Lentiviral Particles: sc-77414-V.

Molecular Weight of UBE1L: 112 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209.

## DATA



UBE1L (S-18): sc-54440. Western blot analysis of UBE1L expression in HL-60 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.

**MONOS**  
Satisfaction  
Guaranteed

Try **UBE1L (G-11): sc-390238** or **UBE1L (B-7): sc-390097**, our highly recommended monoclonal alternatives to UBE1L (S-18).