

UBE2I

Reactivity:Human

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:1000 IHC 1:50 - 1:100

Calculated MW:18kDa

Observed MW:Refer to Figures

Immunogen:

A synthetic peptide of human UBE2I

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

bfjl

Synonym:

UBE2I;C358B7.1;P18;UBC9 ;E2,UBE2I

Catalog #:A0105

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:7329

Isotype:IgG

Swiss Prot:P63279

Purity:Affinity purification

For research use only.

Background:

The process of SUMO-1 conjugation is similar to that seen with ubiquitin and other forms of post-translational protein modification (1). Like ubiquitin, SUMO-1 is conjugated to its target protein by the coordinated action of ubiquitin conjugation enzymes E1, E2 and E3 (2). UBE2I (or ube2M) is a highly conserved, 158 amino acid protein that acts as a SUMO-1 conjugating enzyme (3). UBE2I binds to target proteins through their SUMO-1-CS (consensus sequence) domains and interacts with SUMO via the structurally conserved amino-terminal domain (3,4). Localization of UBE2I to the nucleus and the nuclear envelope allows this enzyme to catalyze target protein sumoylation and regulate target protein nucleocytoplasmic transport and transcriptional activity (5,6). UBE2I target proteins include a host of proteins (RAD51, RAD52, p53 and c-Jun) that regulate the cell cycle, DNA repair, and p53-dependent processes (7).

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