

UBE2K

Reactivity: Human Mouse Rat

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:2000

Calculated MW: 22kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human UBE2K

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

1 µl

Synonym:

UBE2K;DKFZp564C1216;DKFZp686J24237;E2-25K;HIP2;HYPG;LIG ;

Catalog #: A1086

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 3093

Isotype: IgG

Swiss Prot: P61086

Purity: Affinity purification

For research use only.

Background:

Protein ubiquitination requires the concerted action of the E1, E2, and E3 ubiquitin-conjugating enzymes. Ubiquitin is first activated through ATP-dependent formation of a thiol ester with ubiquitin-activating enzyme E1. The activated ubiquitin is then transferred to a thiol group of ubiquitin-carrier enzyme E2. The final step is the transfer of ubiquitin from E2 to an -amino group of the target protein lysine residue, which is mediated by ubiquitin-ligase enzyme E3 (1). E2-25K (Hip2) is a member of the E2 protein family that catalyzes multiubiquitin chain synthesis via Lys48 of ubiquitin (2). E2-25K is reportedly involved in Alzheimer's disease, Huntington's disease and antigen processing through its interaction with amyloid-, huntingtin, and MHC-heavy chain proteins (3-5). Lys14 of E2-25K can be modified by SUMOylation, with this modification resulting in inhibited E2 activity (6).

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