

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

UBIQUITIN CONJUGATING ENZYME E2 D3 RABBIT MAB

Cat.#: N263046

Product Name: Anti-Ubiquitin Conjugating Enzyme E2 D3 Rabbit Monoclonal Antibody

Synonyms: ubiquitin conjugating enzyme E2D 3; UBC4/5; UBCH5C; E2(17)KB3

UNIPROT ID: P61077

Background: Accepts ubiquitin from the El complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-11'-, as well as 'Lys-48'-linked polyubiquitination. Cooperates with the E2 CDC34 and the SCF(FBXW11) E3 ligase complex for the polyubiquitination of NFKBIA leading to its subsequent proteasomal degradation. Acts as an initiator E2, priming the phosphorylated NFKBIA target at positions 'Lys-21' and/or 'Lys-22' with a monoubiquitin. Ubiquitin chain elongation is then performed by CDC34, building ubiquitin chains from the UBE2D3-primed NFKBIA-linked ubiquitin. Acts also as an initiator E2, in conjunction with RNF8, for the priming of PCNA. Monoubiquitination of PCNA, and its subsequent polyubiquitination, are essential events in the operation of the DNA damage tolerance (DDT) pathway that is activated after DNA damage caused by UV or chemical agents during S-phase. Associates with the BRCA1/BARD1 E3 ligase complex to perform ubiquitination at DNA damage sites following ionizing radiation leading to DNA repair. Targets DAPK3 for ubiquitination which influences promyelocytic leukemia protein nuclear body (PML-NB) formation in the nucleus. In conjunction with the MDM2 and TOPORS E3 ligases, functions ubiquitination of p53/TP53. Supports NRDP1-mediated ubiquitination and degradation of ERBB3 and of BRUCE which triggers apoptosis. In conjunction with the CBL E3 ligase, targets EGFR for polyubiquitination at the plasma membrane as well as during its internalization and transport on endosomes. In conjunction with the STUBI E3 quality control E3 ligase, ubiquitinates unfolded proteins to catalyze their immediate destruction. **Immunogen:** A synthetic peptide of human UBE2D3 Applications: WB,IP

Recommended Dilutions: WB: 1/500-1/1000 IP: 1/20

Host Species: Rabbit

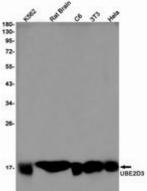
Clonality: Rabbit Monoclonal Clone ID: R01-4J4 MW: Calculated MW: 17 kDa; Observed MW: 17 kDa Isotype: IgG



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Purification: Affinity Purified Species Reactivity: Human,Mouse,Rat Conjugation: Unconjugated Modification: Unmodified Constituents: PBS (without Mg2+ and Ca2+), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide Research Areas: Epigenetics and Nuclear Signaling Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



Western blot analysis of UBE2D3 in K562, rat Brain, C6, 3T3, Hela lysates using Ubiquitin Conjugating Enzyme E2 D3 antibody.