Anti-UB2D3 antibody

Description	Unconjugated Rabbit polyclonal to UB2D3

Model	STJ191591
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Gene ID	7323
Gene Symbol	UBE2D3
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	UB2D3 Polyclonal Antibody detects endogenous levels of protein.
Purification	UB2D3 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Ubiquitin-conjugating enzyme E2 D3 E3-independent E2 ubiquitin-conjugating enzyme D3 E2 ubiquitin-conjugating enzyme D3 Ubiquitin carrier protein D3 Ubiquitin-conjugating enzyme E2 17KB 3 Ubiquitin-conjugating enzyme E2
Molecular Weight	16 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid form in PBS containing 50% glycerol,and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:12476OMIM:602963
Alternative Names	Ubiquitin-conjugating enzyme E2 D3 E3-independent E2 ubiquitin-conjugating enzyme D3 E2 ubiquitin-conjugating enzyme D3 Ubiquitin carrier protein D3 Ubiquitin-conjugating enzyme E2 17KB 3 Ubiquitin-conjugating enzyme E2
Function	Accepts ubiquitin from the E1 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 STUB1 E3 quality control E3 ligase, ubiquitinates unfolded proteins to catalyze their immediate destruction.
Cellular Localization	Cell membrane Endosome membrane
Post-translational Modifications	Phosphorylated by AURKB.