

## Immunotag™ UBE2D3 Antibody

Antibody Specification	
Catalog No.	ITA3223
Product Description	Immunotag™ UBE2D3 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	UBE2D3
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide
Specificity	UBE2D3 antibody detects endogenous levels of total UBE2D3
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Gene Name	UBE2D3
Accession No.	P61077

## Antibody Specification

Alternate Names	E2(17)KB3; MGC43926; MGC5416; PRO2116; UB2D3_HUMAN; UBC 4/5; UBC4/5; UBC4/5 homolog yeast; UBC4/5, <i>S. cerevisiae</i> , homolog of; UBCH 5C; UBCH5C; Ube2d3; Ubiquitin carrier protein; Ubiquitin carrier protein D3; Ubiquitin conjugating enzyme E2 17 kDa 3; Ubiquitin conjugating enzyme E2 D3; Ubiquitin conjugating enzyme E2D 3 (homologous to yeast UBC4/5); Ubiquitin conjugating enzyme E2D 3 (UBC4/5 homolog yeast); Ubiquitin conjugating enzyme E2D 3; Ubiquitin protein ligase D3; Ubiquitin-conjugating enzyme E2 D3; Ubiquitin-conjugating enzyme E2(17)KB 3; Ubiquitin-conjugating enzyme E2-17 kDa 3; Ubiquitin-protein ligase D3;
Description	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.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	17 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.