

UBE2C

Recombinant Human Ubiquitin (K48R Mutation)

Catalog No.	CRU105A CRU105B CRU105C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Ubiquitin, Ribosomal Protein S27a, CEP80, UBA80, UBCEP1, UBCEP80, HUBCEP80, RPS27A, Ubiquitin K48R.		
Description:	<p>Ubiquitin is a highly conserved 76 amino acid protein expressed in all eukariotes. Ub is found either in free form or conjugated to proteins as monomer or as chain of ubiquitin molecules. The most well characterized consequence of polyubiquitination is substrate degradation, while mono-ubiquitinated proteins are not degraded. Ubiquitin attachment to protein substrate is a complex process involving a ubiquitin activating enzyme (E1), a ubiquitin conjugating enzyme (E2) and a ubiquitin protein ligase (E3). The first ubiquitin moiety is transferred to the e-NH2 group of a Lys residue of the protein substrate to generate an isopeptide bond. In successive reactions, a poly ubiquitin chain is synthesized by processive transfer of additional activated moieties to Lys48 of the previously conjugated ubiquitin molecule. Ubiquitin K48R prevents the formation of poly ubiquitin chains via Lys48 linkages with mono ubiquitin molecules, avoiding the degradation of protein substrates.</p> <p>Recombinant Human Ubiquitin featuring a Lys 48 to Arg48 mutation is useful for the reduction of poly-Ub chain length and conjugation rates. Ubiquitin K48R is purified by proprietary chromatographic techniques.</p>		
Physical Appearance:	Sterile Filtered clear solution.		
GeneID:	11065		
Source:	<i>E. coli</i>		
Formulation:	Diluted in PBS+ 5% glycerol.		
Purity:	> 95% as determined by SDS-PAGE.		
Storage & Stability:	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Avoid repeated freezing and thawing cycles.		

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