## **w** abeomics

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## 32-5179: Recombinant Human Ubiquitin Lys 48 to Arg 48 mutation

Alternative Name : Ubiquitin, Ribosomal Protein S27a, CEP80, UBA80, UBCEP1, UBCEP80, HUBCEP80, RPS27A, Ubiquitin K48R.

## Description

Source : Escherichia Coli. 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 expressed in E. coliand purified by proprietary chromatographic techniques. 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 molecy 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 molecule. Ubiquitin K48R prevents the formation of poly ubiquitin chains via Lys48 linkages with mono ubiquitin molecules, avoiding the degradation of protein substrates.

## **Product Info**

Amount :	20 μg
Purification :	Greater than 95% as determined by SDS-PAGE.
Content :	Diluted in PBS plus 5% glycerol.
Storage condition :	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.Please prevent freeze-thaw cycles.

