



# Recombinant *S. cerevisiae* Ubiquitin (DAG2659)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Product Overview	Ubiquitin, yeast recombinant
Species	<i>S. cerevisiae</i>
Purity	> 95% by SDS-PAGE
Conjugate	Unconjugated
Format	5 mg, lyophilized powder
Preservative	None
Storage	2-8°C short term, -20°C long term

## BACKGROUND

Introduction	<p>Function: Ubiquitin exists either covalently attached to another protein, or free (unanchored). When covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiquitin), a polymer linked via different Lys residues of the ubiquitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in lysosomal degradation; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to</p>
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Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling. Similarity: Belongs to the ubiquitin family. Contains 3 ubiquitin-like domains.

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**Keywords**

FLJ25987; MGC8385; Polyubiquitin B; RPS 27A; RPS27A; UBA 52; UBA 80; UBA52; UBA80; UBB; UBB; UBC; UBCEP 1; UBCEP 2; UBCEP1; UBCEP2; Ubiquitin; ubiquitin B;

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