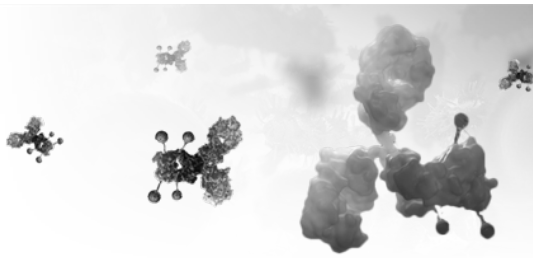

Recombinant A. thaliana Ubiquitin (DAG2657)

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

PRODUCT INFORMATION

Product Overview	Recombinant Plant Ubiquitin
Species	A. thaliana
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	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 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:

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	Belongs to the ubiquitin family. Contains 3 ubiquitin-like domains.
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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