

Background

Based on protein domains known to possess an affinity for ubiquitin, Tandem Ubiquitin Binding Entities (TUBEs) have been developed for the isolation and identification of ubiquitinated proteins. TUBEs display up to a 1000-fold increase in affinity for polyubiquitin moieties over the single ubiquitin-binding associated domain (UBA). In addition, TUBEs display a protective effect on polyubiquitinated proteins, allowing for detection at relatively low abundance. These properties effectively "capture" proteins in their polyubiquitin state.

The affinity of TUBE 1 for K63 linked tetra-ubiquitin is approximately 10-fold higher than for K48 linked chains.

Application(s)

- Pull down polyubiquitinated proteins from cell lines, tissues, and organs
- Protection of polyubiquitinated proteins from both deubiquitination and degradation by the proteasome

Product Specifications

Affinity Tag None

Purity (prior to coupling) > 95% by SDS-PAGE

Quantity 1ml (0.5 ml resin)

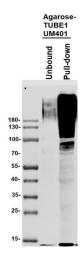
Expression System E. coli

Physical State Liquid (50% slurry)

Buffer PBS, pH 7.5, 20% ethanol

Stability & Storage >1 year at -20°C. Avoid storing at lower temperatures.

Product QC



References

- 1. Garadi Suresh H et al., Mol Cell, 2024;84(12):2337-2352
- 2. Chen X., et al., Cell, 2023;186 (18):3903-3920.e21.
- 3. Reynolds SD., et al., JCI Insight, 2022;7(15): e157380.
- 4. Kadimisetty K., et al., Methods Mol Biol, 2021;2365:185-202.

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