TUBE2 Magnetic Beads

Cat. # UM402M



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.
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The affinity of solution phase TUBE 2 for K63 linked tetra-ubiquitin is approximately equal to K48 linked tetra-ubiquitin (5-10nM).

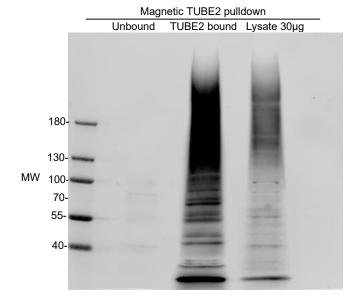
Application(s)

Pulldown of 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) \geq 95% by SDS-PAGE	
Quantity	1ml	
Expression System	E. coli	
Physical State	Liquid	
Buffer	PBS	
Stability & Storage	≥1 year at +4ºC. Avoid freezing	

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.

All products are for research use only

Not intended for human or animal diagnostic or therapeutic uses
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