## M1 TUBE (FLAG)

Cat. # UM606



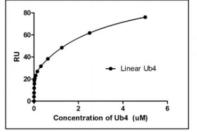
Background	Based on protein domains known to possess an affinity for ubiquitin, Tandem Ubiquitin Binding Entities (TUBEs) have been developed for the isolation and identification of ubiquitinated proteins. TUBEs display up to a 1000-fold increase in affinity for poly-ubiquitin moieties over the single 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" protein in its polyubiquitin state.
	Our anti-M1 (linear) TUBE has high selectivity for M1-linked polyubiquitin over the more common K48- and K63-linked polyubiquitin chains, making it a powerful tool for studying the biological consequences of this ubiquitin linkage type.
Application(s)	<ul> <li>Detection of M1-linked polyubiquitinylated proteins by ligand (far Western) blotting</li> <li>Identification of the polyubiquitin linkage-type of your protein of interest</li> </ul>

- Inhibition of M1-dependent processes in lysates
- Purification of M1-linked polyubiquitinylated proteins from cell and tissue lysates
- In situ labeling for detection of M1-linked polyubiquitinylated proteins by histochemistry

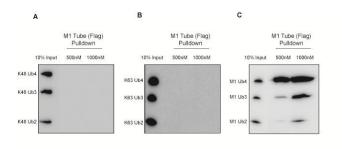
## **Product Specifications**

Flag
≥ 90% by SDS-PAGE
23.1 kDa
50 µg
E.Coli
Liquid
50 mM HEPES (pH 7.5), 150 mM NaCl, 10% glycerol
> 30 mg/mL
Variable, depending on lot number
Over 1 year at -80 °C. Avoid repeated freeze/thaw cycles

## **Product QC**



Anti-M1 (Linear) TUBEs show a strong affinity for M1 ubiquitin (KD ~15nM) as measured by SPR.



M1 (Linear) TUBE shows strong specificity. Mix of different Ub chains were pulled down using either 500 nM or 1000 nM of M1-TUBE, and the western blot was probed with anti-Ubiquitin antibody (VU1 clone, cat # VU101). Only M1-Linked polyubiquitin chains (C) were pulled down with the M1 TUBE, and not K48- (A) or K63-linked ployubiquitin (B).

## References

- 1. Kadimisetty K., et al., Methods Mol Biol, 2021;2365:185-202.
- 2. Aillet, F., et al., Meth Mol Biol, 2012. 832: p. 173-183.
- 3. Hjerpe R., et al., EMBO Rep. 2009;10(11):1250-8.

All products are for research use only 

Not intended for human or animal diagnostic or therapeutic uses
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