GST-TUBE2

Cat. # UM102

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 ubiquitylated 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 polyubiquitylated proteins, allowing for detection at relatively low abundance. These properties effectively "capture" proteins in their polyubiquitylated state.

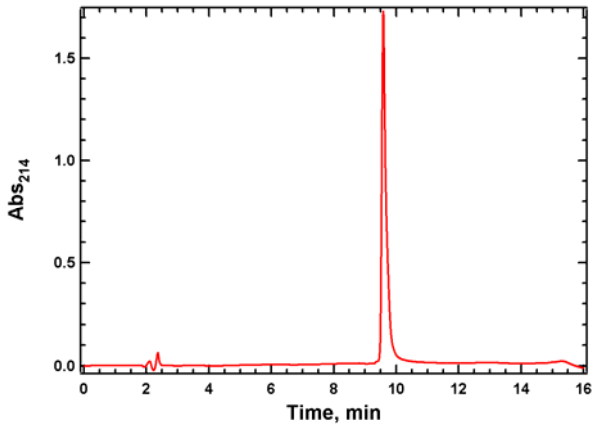
TUBE 2 is based on UBA1 from human RAD23A. The affinity of TUBE 2 for K63 linked tetra-ubiquitin and K48 tetra-ubiquitin linked chains is equivalent.

Application:

- Pull down of poly-ubiquitylated proteins from cell lines, tissues and organs
- Protection of poly-ubiquitylated proteins from both deubiquitylation and degradation by the proteasome

Product Information

Purity:	≥ 95% by RP-HPLC and SDS-PAGE
Molecular Weight:	56,476 Da
Physical State:	liquid
Quantity:	200 µg or 1mg at 5 mg/mL
Solubility:	>30 mg/mL
Storage:	-80° C. Avoid repeated freeze/thaw cycles



RP-HPLC

References

Hjerpe, R, Aillet, F, Lopitz-Otsoa, F, Lang, V, England, P, and Rodriguez, MS., Efficient protection and isolation of ubiquitylated proteins using tandem ubiquitin-binding entities. , *EMBO Rep.* **10:**1250-1258 (2009).