Lot #

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MATERIAL DATA SHEET

His_6-Ubiquilin 1 Tandem UBA (TUBE2), *human recombinant*
Cat. # UBE-110

Ubiquilin-1 contains an N-terminal ubiquitin-like domain and a C-terminal ubiquitin-associated domain. It associates with proteasomes and ubiquitin ligases, and is thought to functionally link the ubiquitination machinery to the proteasome to affect *in vivo* protein degradation. Ubiquilin-1 has also been shown to modulate accumulation of presenilin proteins, and is found in lesions associated with Alzheimer's and Parkinson's disease. Tandem Ubiquitin Binding Entities (TUBEs) have been developed for the isolation and identification of ubiquitinated proteins. TUBEs display increased affinity for polyubiquitin moieties over the single ubiquitin binding associated domain (UBA). TUBEs also display a protective effect on polyubiquitinated proteins, allowing for detection at relatively low abundance. This protein can be used for the isolation and identification of K48-linked (preferentially) or K63-linked poly-Ub chains or ubiquitinated substrates that contain these linkages. This protein is His_6-tagged which allows for metal chelate affinity purification and also allows for convenient immuno-detection of conjugates using His_6-specific antibodies.

Product Information

Quantity:	250 µg
MW:	21 kDa
Stock:	X mg/ml (X µM) 50 mM Hepes, 200 mM NaCl, 1 mM DTT pH 8.0
Purity:	>95% by SDS-PAGE

Use & Storage

Use:	Use 50-100 µg of protein to detect 2-25 µg of purified K48-linked ubiquitin chains. The amount necessary for use in crude lysates needs to be determined empirically.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:

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