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MATERIAL DATA SHEET

His_6-HR23A/Rad23A Tandem UBA (TUBE1), *human recombinant*
Cat. # UBE-210

hHR23A has two UBA domains that can each bind ubiquitin in addition to an N-terminal UBL domain that binds S5a and S2, two components of the 26S proteasome. hHR23a recognizes ubiquitin through a predominately hydrophobic surface formed by residues within α1 and α3 of each of its UBA domains. 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 enrichment, isolation and identification of K63-linked (preferentially) or K48-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:	28.33 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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Wang, G., *et al.* (2000) Hum. Molec. Genet. **9:** 1795-1803

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