

MATERIAL DATA SHEET**HR23A/Rad23A Tandem UBA (TUBE1) Biotin, *human recombinant***
Cat. # UBE-215

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 $\alpha 1$ and $\alpha 3$ 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 poly-Ubiquitin moieties over the single Ubiquitin binding associated domain (UBA). TUBEs also display a protective effect on poly-Ubiquitinated proteins, allowing for detection at relatively low abundance. This protein can be used for the enrichment, isolation and identification of K63-linked or K48-linked poly-Ubiquitin chains or Ubiquitinated substrates that contain these linkages.

Product Information

Quantity:	250 μ g
MW:	28 kDa
Stock:	X mg/ml (X μ M) 50 mM HEPES pH 8.0, 200 mM NaCl, 2 mM TCEP
Purity:	>95% by SDS-PAGE under reducing conditions and visualized with Colloidal Coomassie Blue stain.

Use & Storage

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

Literature

References:	Hjerpe, R., <i>et al.</i> (2009) <u>EMBO Reports</u> . 10 : 1250-1258
	Hurley, J., <i>et al.</i> (2006) <u>Biochem. J.</u> 399 : 361-372
	Masutani, C., <i>et al.</i> (1994) <u>EMBO J.</u> 13 : 1831-1843
	Van der Spek, P.J., <i>et al.</i> (1994) <u>Genomics</u> . 23 : 651-658
	Van der Spek, P.J., <i>et al.</i> (1996) <u>Genomics</u> . 31 : 20-27
	Wang, G., <i>et al.</i> (2000) <u>Hum. Molec. Genet.</u> 9 : 1795-1803

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