
MATERIAL DATA SHEET

Recombinant Human HR23A/Rad23A TUBE1 Tandem UBA (TUBE1)

Agarose

Cat. # AM-125

Human HR23A/Rad23A has two Ubiquitin-associated (UBA) motifs that can each bind Ubiquitin via a hydrophobic surface formed by residues located within the $\alpha 1$ and $\alpha 3$ helices of each UBA domain (1,2). Tandem-repeated Ubiquitin binding entities (TUBEs), which consist of multiple tandem Ubiquitin-binding UBA motifs, have been developed for the isolation and identification of ubiquitinated proteins (3). TUBEs show increased affinity for poly-Ubiquitin moieties compared to single UBA motifs (4). Additionally, TUBEs protect polyubiquitinated proteins from deubiquitylating enzymes, allowing for the detection of polyubiquitinated proteins at relatively low levels of abundance (5).

This affinity resin 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.

Product Information

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| Quantity: | 250 μ l |
| Source: | <i>E. coli</i> -derived Accession # NP_005044.1 |
| Stock: | Supplied as a 50% (v/v) slurry in a solution of 20% Ethanol in deionized water |

Use & Storage

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| Use: | hHR23A Tandem UBA (TUBE1) agarose is ideal for the enrichment of known TUBE1-interacting proteins as well as the discovery of novel TUBE1-interacting proteins. We recommend equilibrating the resin by washing with 5-10 mL of your desired aqueous buffer. |
| Storage: | <ul style="list-style-type: none">• 12 months from date of receipt, 2 to 8 °C as supplied.• 3 months, 2 to 8 °C under sterile conditions after opening. |

Literature

References:

1. Chen, L. *et al.* (2001) EMBO Rep. **2**:933.
2. Wang, Q. *et al.* (2003) Biochemistry **42**:13529.
3. Hjerpe, R. *et al.* (2009) EMBO Rep. **10**:1250.
4. Hurley, J.H. *et al.* (2006) Biochem. J. **399**:361.
5. Lopitz-Otsoa, F. *et al.* (2010) Biochem. Soc. Trans. **38**:40.

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