

## MATERIAL DATA SHEET

### HR23A Tandem UBA (TUBE1) Agarose, *human recombinant* Cat. # AM-125

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 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 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

<b>Quantity:</b>	0.25 ml
<b>Stock:</b>	0.25 ml of TUBE1 agarose is supplied in a 0.5 ml total volume of 50 mM Hepes pH 7.5, 250 mM NaCl.

#### Use & Storage

<b>Use:</b>	Equilibrate resin by washing with 5-10 ml desired start buffer. Binding and elution of material is dependent on individual experimental conditions.
<b>Storage:</b>	The agarose can be re-used for at least 2 applications if properly maintained. After use, clean resin with 5 ml 50 mM Tris pH 9.0, 1 M KCl. Remove cleaning solution by washing resin with 5 ml storage buffer. Resin should be stored at 4°C, 0.01% sodium azide can be added as a bacteriostatic agent. DO NOT FREEZE.

#### Literature

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