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## MATERIAL DATA SHEET

### Ubiquilin 1 Tandem UBA (TUBE2) Agarose, *human recombinant* Cat. # AM-130

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 affinity resin can be used for the enrichment, isolation and identification of K48-linked (preferentially) or K63-linked polyubiquitin chains or ubiquitinated substrates that contain these linkages.

#### Product Information

<b>Quantity:</b>	250 µl resin supplied as a 50% slurry in 50 mM HEPES pH 7.5, 50 mM NaCl, 0.09% sodium azide
<b>Stock:</b>	Tandem UBA covalently coupled to agarose at 5 mg/ml resin

#### Use & Storage

<b>Use:</b>	Equilibrate resin by washing with 5-10 ml desired start buffer. Binding and elution of material is dependent on experimental conditions.
<b>Storage:</b>	Store at 4°C

#### Literature

<b>References:</b>	Bertram, L., <i>et al.</i> (2005) <u>New Eng. J. Med.</u> <b>352</b> : 884-894 Bird, T. D. (2008) <u>New Eng. J. Med.</u> <b>352</b> : 862-864, Ganguly, A., <i>et al.</i> (2008) <u>Hum. Molec. Genet.</u> <b>17</b> : 293-302 Hjerpe, R., <i>et al.</i> (2009) <u>EMBO Reports.</u> <b>10</b> : 1250-1258 Hurley, J., <i>et al.</i> (2006) <u>Biochem. J.</u> <b>399</b> : 361-372 Kamboh, M. I., <i>et al.</i> (2006) <u>Molec. Psychiat.</u> <b>11</b> : 273-279 Slifer, M. A., <i>et al.</i> (2005) <u>New Eng. J. Med.</u> <b>352</b> : 2752-2753 Smemo, S.; Nowotny, P., <i>et al.</i> (2006) <u>Ann. Neurol.</u> <b>59</b> : 21-26 Sweetser, D. A., <i>et al.</i> (2005) <u>Genes Chromosomes Cancer</u> <b>44</b> : 279-291
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