

## MATERIAL DATA SHEET

### Recombinant Human Ataxin UIM Domains Agarose

#### Cat. # AM-115

The Ubiquitin-interacting Motif (UIM) is an alpha-helical Ubiquitin-binding domain found in many proteins that recognizes and traffics ubiquitinated cargo (1, 2). Ataxin-3, a deubiquitinating enzyme that contains three consecutive UIM motifs (amino acids (aa) 224-243, 244-263, 331-348), functions as a mixed lineage, chain editing enzyme that recognizes and binds K48-linked and K63-linked poly-Ubiquitin chains (3-5). The UIM domain of Ataxin-3 (aa 224-348) preferentially interacts with four or more Ubiquitin units of K48-linked or K63-linked poly-Ubiquitin chains or ubiquitinated substrates that contain these linkages (4, 6, 7).

This protein can be used for the isolation and identification of K48-linked (preferentially) or K63-linked poly-Ubiquitin chains or ubiquitinated substrates containing these linkages.

#### Product Information

<b>Quantity:</b>	250 µl
<b>Source:</b>	<i>E. coli</i> -derived Accession # P54252-1
<b>Stock:</b>	Supplied as a 50% slurry in HEPES buffered saline with 1 mM Sodium Azide.

#### Use & Storage

<b>Use:</b>	Ataxin UIM-agarose is ideal for the enrichment of known Ataxin UIM-interacting proteins as well as the discovery of novel Ataxin UIM-interacting proteins. We recommend equilibrating the resin by washing with 5-10 mL of your desired aqueous buffer.
<b>Storage:</b>	<b>Do not freeze.</b> <ul style="list-style-type: none"><li>• 3 months from date of receipt, 2 to 8 °C as supplied.</li><li>• 1 month, 2 to 8 °C under sterile conditions after opening.</li></ul>

## Literature

### References:

1. Sgourakis, N.G. *et al.* (2010) J. Mol. Biol. **396**:1128.
2. Hurley, J.H. *et al.* (2006) Biochem. J. **399**:361.
3. Albrecht, M. *et al.* (2004) Eur. J. Biochem. **271**:3155.
4. Burnett, B. *et al.* (2003) Hum. Mol. Genet. **12**:3195.
5. Mao, Y. *et al.* (2005) Proc. Natl. Acad. Sci. USA **102**:12700.
6. Berke, S.J. *et al.* (2005) J. Biol. Chem. **280**:32026.
7. Winborn, B.J. *et al.* (2008) J. Biol. Chem. **283**:26436.

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