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## MATERIAL DATA SHEET

### Rad23A Tandem UBA (TUBE1) His6-Fluorescein, *human recombinant* Cat. # UBE-212

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 contains a single fluorescein dye and an amino-terminal His6 tag.

#### Product Information

<b>Quantity:</b>	100 $\mu$ g
<b>MW:</b>	29 kDa
<b>Stock:</b>	X mg/ml (X $\mu$ M) 50 mM HEPES pH 7.5, 200 mM NaCl
<b>Purity:</b>	>95% by SDS-PAGE under reducing conditions and visualized with Colloidal Coomassie Blue stain.

#### Use & Storage

<b>Use:</b>	His6-TUBE1-fluorescein can be used to detect K48-linked polyubiquitin chains. Use will depend on experimental conditions to be determined by the investigator.
<b>Storage:</b>	Store at -80°C in the dark. Avoid multiple freeze/thaw cycles.

#### Literature

<b>References:</b>	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 Masutani, C, <i>et al.</i> (1994) <u>EMBO J.</u> <b>13</b> : 1831-1843 Van der Spek, P.J., <i>et al.</i> (1994) <u>Genomics</u> , <b>23</b> : 651-658 Van der Spek, P.J., <i>et al.</i> (1996) <u>Genomics</u> , <b>31</b> : 20-27 Wang, G., <i>et al.</i> (2000) <u>Hum. Molec. Genet.</u> <b>9</b> : 1795-1803
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840 Memorial Drive, Cambridge, MA 02139 Phone: 617-576-2210 FAX: 617-492-3565

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