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**MATERIAL DATA SHEET**

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**Recombinant Human His6 HR23A/Rad23A TUBE1 Tandem UBA (TUBE1),  
Fluorescein-conjugated****Cat. # UBE-212**

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. 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. TUBEs show increased affinity for poly-Ubiquitin moieties compared to single UBA motifs. Additionally, TUBEs protect polyubiquitinated proteins from deubiquitylating enzymes, allowing for the detection of polyubiquitinated proteins at relatively low levels of abundance.

**Product Information**

<b>Quantity:</b>	100 $\mu$ g
<b>MW:</b>	29 kDa
<b>Source:</b>	<i>E. coli</i> -derived Accession # P54725
<b>Stock:</b>	X mg/ml (X $\mu$ M) in 50 mM HEPES pH 7.5, 200 mM NaCl

**Use & Storage**

<b>Use:</b>	Fluorescein-labeled His6-TUBE1 can be used to detect polyubiquitin chains. Reaction conditions will need to be optimized for each specific application.
<b>Storage:</b>	<b>Protect from light. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>• 24 months from date of receipt, -70 °C as supplied.</li><li>• 3 months, -20 to -70 °C under sterile conditions after opening.</li></ul>

## 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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