

**MATERIAL DATA SHEET****Biotinylated Poly-Ub WT Chains (2-7) (K48-linked)  
Cat. # UCB-230**

Linkage specific poly-ubiquitin chains are used to investigate mechanisms of chain recognition, binding and hydrolysis by the proteasome, deubiquitinating enzymes, E3 ligases or other proteins that contain ubiquitin-associated domains (UBAs) or ubiquitin-interacting motifs (UIMs). Lys48-linked chains are abundant *in vivo* and act as a universal signal for proteasomal degradation. This product is formed with wild-type human recombinant ubiquitin and linkage-specific enzymes. This mixture of poly-ubiquitin chains contains di-ubiquitin and higher MW species; mono-ubiquitin has been removed. These chains have been modified with biotin via primary amine coupling. This results in multiple biotinylated species modified at the N-terminus, as well as lysine residues. Biotinylated ubiquitin can be detected using avidin-linked reagents.

**Product Information**

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|--------------------|---------------------------------|
| <b>Quantity:</b>   | 50 µg, lyophilized powder       |
| <b>Solubility:</b> | Aqueous solutions up to 5 mg/ml |
| <b>Purity:</b>     | > 95% by SDS-PAGE               |

**Use & Storage**

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| <b>Use:</b>     | Typical concentrations will depend on specific assay conditions and method of detection. |
| <b>Storage:</b> | Solubilized solution at -20°C. Avoid multiple freeze/thaw cycles.                        |

**Literature**

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| <b>References:</b> | Chan N., <i>et al.</i> (2001) <u>Nature. Struc. Biol.</u> <b>8</b> :650-652<br>Piotrowski J., <i>et al.</i> (1997) <u>J. Biol. Chem.</u> <b>272</b> :23712-23721<br>Tenno T., <i>et al.</i> (2004) <u>Genes to Cells.</u> <b>9</b> :865-875<br>Throwe J.S., <i>et al.</i> (2000) <u>EMBO. J.</u> <b>19</b> :94-102<br>Van Nocker S., <i>et al.</i> (1993) <u>J. Biol. Chem.</u> <b>268</b> :24766-24773<br>Wilkinson K.D., <i>et al.</i> (1995) <u>Biochem.</u> <b>34</b> :14535-14546 |
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