
MATERIAL DATA SHEET

Ubiquitin No Lys, N-Terminal Biotin, *human recombinant***Cat. # UB-NOK**

Produced via a proprietary process resulting in a single biotin modification exclusively on the N-terminus of ubiquitin. This site-specific modification results in an ubiquitin that is fully functional at the C-terminus. This ubiquitin mutant lacks all reactive lysine residues which have been mutated to arginine. These mutations render the protein unable to form poly-ubiquitin chains and can be used as a negative control or to detect mono-ubiquitination. Detection with avidin-linked reagents allows for a higher efficiency and detection sensitivity than with anti-ubiquitin antibodies. Ideal as an alternative to radio-labeled ubiquitin.

Product Information

Quantity:	50 µg, lyophilized powder
Stock:	Soluble in aqueous buffer up to 5 mg/ml.
MW:	8.6 kDa
Purity:	> 95% by PAGE

Use & Storage

Use:	Depending on desired signal strength and assay conditions, biotin-N-term-Ub should be used in conjunction with unlabeled ubiquitin at concentrations ranging from 10-50 µM with a 1:2 - 1:20 ratio of biotin-N-term Ub: Ub, respectively. Mono-ubiquitination visualization or quantitation can be performed via avidin-linked detection.
Storage:	Store at -20°C once reconstituted. Avoid multiple freeze/ thaw cycles.

Literature

References:	Corsi D., <i>et al.</i> (1995) <u>J. Biol. Chem.</u> 270 :8928-8935 Mitsui A., <i>et al.</i> (1999) <u>PNAS</u> 96 :6054-6059 Mimnaugh E.G. <i>et al.</i> (1999) <u>Electrophoresis</u> 29 :418-428
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