

# Recombinant Human Ubiquitin Protein, Atto488 labeled

**Cat. No.** Ubiquitin-896H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Human Ubiquitin was labeled with Atto488.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>Ubiquitin is a ubiquitins regulatory protein (8.5kDa) that can be conjugated to substrate proteins by subsequent actions of enzymes, such as:: E1 - class of Ubiquitin activating enzymes, E2 - class of Ubiquitin conjugating enzymes and E3-class of Ubiquitin ligases, All assays have to be optimized for the individual set up and it is recommended to start with initial concentration of Ubiquitin-Atto488 of 0.01-0.5mM.</p> <p>Atto488-labeled ubiquitin is used as a general research tool or in high throughput assays (HTS) to monitor protein ubiquitination. The labelling method of the ubiquitin protein keeps all lysines functional for further and guarantees the full function of the protein.</p> <p>Ubiquitin-Atto488 (<math>\lambda_{ex}</math> 501nm,<math>\lambda_{em}</math> 523nm).</p> |
| <b>Form</b>             | 20mM TES pH 7.4, 50mM KCl and 0.3% disaccharides, when reconstituted with 200 $\mu$ ultrapure water to obtain a 1mg/ml solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 9.3kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | >99% by scanning densitometry.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>     | Fluorescence microscopy, FRET, Fluorescence spectroscopy, Biochemical assays.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | Ubiquitin is stored at –70 centigrade upon arrival and will be stable in performance for at least 6 months from the date of purchase. Solubilized ubiquitin is kept on ice and should be used within 2 weeks. Avoid refreezing. |
| <b>Shipping</b> | At ambient temperature. Upon delivery store at -70 centigrade.                                                                                                                                                                  |

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