

MATERIAL DATA SHEET**Rhodamine Red-His₆-Apg8p3 (MAP-LC3a), *human recombinant*****Cat. # UL-436**

Apg8p3 modified with rhodamine red via primary amine coupling, resulting in the modification of lysine residues as well as the N-terminus. This labeled Apg8p3 allows for direct detection spectrophotometrically with higher efficiency and sensitivity than with antibodies. This protein contains an N-terminal His₆ tag.

Product Information

Quantity:	50 µg
Stock:	X mg/ml (XµM) in 50mM Hepes pH 7.5, 100mM NaCl. Actual concentration varies with lot number.
MW:	16.3 kDa
Purity:	> 95% by PAGE

Use & Storage

Use:	Rhodamine Apg8p3 gives a strong signal in the range of 0.1-1 µM, depending on exact experimental conditions. Optimal fluorescence at pH 8.0 is monitored using Ex ₅₇₀ nm and Em ₅₉₀ nm wavelengths respectively.
Storage:	Store at -80°C. Avoid multiple freeze/ thaw cycles.

Literature

References:	Hammerback J.A., <i>et al.</i> (1991) <u>Neuron</u> 7 : 521-524 He H., <i>et al.</i> (2003) <u>J.Biol.Chem.</u> 278 : 29278-29287 Langkopf A., <i>et al.</i> (1992) <u>J.Biol.Chem.</u> 267 : 16561-16566 Kabeya Y., <i>et al.</i> (2000) <u>EMBO J.</u> 19 : 5720-5728 Kabeya Y., <i>et al.</i> (2004) <u>J. Cell. Sci.</u> 117 : 2805-2812 Mann S.S., <i>et al.</i> (1996) <u>J. Neurosci.</u> 43 : 535-544 Mann S.S. and Hammerback J.A.. (1994) <u>J. Biol. Chem.</u> 269 : 11492-11497 Sugawara K., <i>et al.</i> (2004) <u>Genes.Cells.</u> 9 : 611-618
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