

**MATERIAL DATA SHEET****His<sub>6</sub>-GABARAP/Apg8p1 Rhodamine, *human recombinant*  
Cat. # UL-416**

Apg8p1 modified with rhodamine red via primary amine coupling, resulting in the modification of lysine residues as well as the N-terminus. This labeled Apg8p1 allows for direct detection spectrophotometrically with higher efficiency and sensitivity than with antibodies. This protein contains an N-terminal His<sub>6</sub> tag.

**Product Information**

<b>Quantity:</b>	50 µg
<b>Stock:</b>	X mg/ml (XµM) in 50mM Hepes pH 7.5, 100mM NaCl. Actual concentration varies with lot number.
<b>MW:</b>	16 kDa
<b>Purity:</b>	> 95% by PAGE

**Use & Storage**

<b>Use:</b>	Rhodamine Apg8p1 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 <sub>570</sub> nm and Em <sub>590</sub> nm wavelengths respectively.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/ thaw cycles.

**Literature**

<b>References:</b>	Bavro V.N., <i>et al.</i> (2002) <u>EMBO. Rep.</u> <b>3</b> : 183-189 Kouno T., <i>et al.</i> (2002) <u>J. Biomol. NMR.</u> <b>22</b> : 97-98 Knight D., <i>et al.</i> (2002) <u>J.Biol.Chem.</u> <b>277</b> : 5556-5561 Nymann-Anderson J., <i>et al.</i> (2002) <u>Neuropharm.</u> <b>43</b> : 476-481 Tanida I., <i>et al.</i> (2003) <u>Biochem. Biophys. Res. Comm.</u> <b>300</b> : 637-644 Stangler T., <i>et al.</i> (2002) <u>J.Biol.Chem.</u> <b>277</b> : 15563-13366 Wang H., <i>et al.</i> (1999) <u>Nature.</u> <b>397</b> : 69-72 Xin Y., <i>et al.</i> (2001) <u>Genomics.</u> <b>74</b> : 408-413
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