

MATERIAL DATA SHEET**SUMO2 Fluorescein, *human recombinant***
Cat. # UL-756

SUMO-2 modified with fluorescein via primary amine coupling resulting in modification of lysine residues as well as the N-terminus. Although having a fully functional C-terminus, lysine modification may limit the ability of this reagent to propagate poly-SUMO chains. This labeled SUMO-2 allows for direct detection spectrophotometrically with higher efficiency and sensitivity than with antibodies.

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:	10.5 kDa
Purity:	> 95% by PAGE

Use & Storage

Use:	Fluorescein SUMO-2 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 ₄₉₀ nm and Em ₅₁₅ nm wavelengths respectively.
Storage:	Store at -80°C. Avoid multiple freeze/ thaw cycles.

Literature

References:	Adams M. D., <i>et al.</i> (1993) <i>Nat.Genet.</i> 4 : 373-380, 1993. Dai K.-S. and Liew C.-C. (2001) <i>J.Biol.Chem.</i> 276 : 23992-23999 Kamitani T., <i>et al.</i> (1998) <i>J.Biol.Chem.</i> 273 : 11349-11353 Lapenta V. <i>et al.</i> (1997) <i>Genomics</i> 40 : 362-366 Huang W-C. <i>et al.</i> (2004) <i>Eur. J. Biochem.</i> 271 : 4114-4122 Mannen H., <i>et al.</i> (1996) <i>Biochem.Biophys.Res.Comm.</i> 222 :178-180 Su H.L. and Li. S.S.-L. (2002) <i>Gene.</i> 296 : 65-73 Chung T.L., <i>et al.</i> (2004) <i>J.Biol.Chem.</i> 279 : 39653-39662. Yeh E.T.H., <i>et al.</i> (2000) <i>Gene.</i> 248 :1-14
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