



# Rat (monoclonal) Anti-Fluorescein Isothiocyanate FITC Conjugate

## PRODUCT ANALYSIS SHEET

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<b>Catalog Number:</b>	ANZ0109
<b>Lot Number:</b>	See product label
<b>Clone:</b>	LO-FLUO-1
<b>Quantity/Volume:</b>	1.0 mg/1.0 mL
<b>Form of the Antibody:</b>	Fluorescein isothiocyanate conjugated purified immunoglobulin in phosphate buffered saline with 50% glycerol and 0.1% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)
<b>Isotype:</b>	IgM (rat)
<b>Immunogen:</b>	FITC-labeled mouse IgG <sub>1</sub> kappa
<b>Reactivity:</b>	Reacts with fluorescein isothiocyanate. Does not cross-react with mouse, rat, sheep, or human.
<b>Avidity:</b>	$2 \times 10^{10} \text{ M}^{-1}$ with FITC-labeled BSA.
<b>Applications:</b>	In immunofluorescence to amplify the fluorescence intensity of a direct FITC staining.
<b>Purification:</b>	Immunoaffinity chromatography as described by Bazin et al. (J. Immunol. Meth. 1984, 71:9-16).
<b>Purity Test:</b>	Agarose electrophoresis as described by Bazin et al. (J. Immunol. Meth. 1984, 66:261-269).  Immuno-electrophoresis using a goat anti-rat Ig serum (Querijnjean et al., Eur. J. Biochem. 1972, 31:354-359).  Result: Monoclonal antibody band.

**This product is for research use only. Not for use in diagnostic procedures.**

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**Activity Test:**

The optimal concentration has been assessed as follows: IgG2c expressing rat myeloma cells (IR304 cells) were incubated for 30 minutes at 4°C with mouse (monoclonal) anti-rat IgG2c FITC (clone MARG2c-5 FITC) at a concentration of 2.5 µg/mL. Unbound antibody was removed by washing, and various concentrations of LO-FLUO-1 FITC were added. Cells were washed with phosphate buffered saline with 0.2% sodium azide and 2% FCS and analyzed by flow cytometry. Cells without LO-FLUO-1 had a mean fluorescence at 750, peaking at 874. Cells incubated with LO-MG1-2 FITC had a mean fluorescence of 89.45 with a peak channel at 38. Cell Incubated with LO-MG1-2 FITC plus LO-FLUO-1-FITC increased the values of mean fluorescence to 140 with a peak channel around 51.

Result: Use at 5 µg/mL to obtain maximal fluorescence and minimal (approximately 3%) non-specific binding.

**Storage:**

Store at -20°C. Upon initial thawing, apportion into working aliquots and store at -20°C. Keep freeze/thaw cycles to a minimum.

**Expiration Date:**

Expires one year from date of receipt when stored as instructed.

**References:**

Bazin H. Production of rat monoclonal antibodies with the LOU rat non secreting IR983F myeloma cell line. Prot. Biol. Fluids, 1982, Peeters E. ed., 29th colloquium 1981 Pergamon Press Oxford and N.Y.: 615-618.

"Rat Hybridomas and Rat Monoclonal Antibodies". H. Bazin (Ed.). CRC Press, Boca Raton, Florida, USA, 1990, 515 pages.

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