

Product datasheet for **SM1474B**

FITC Rat Monoclonal Antibody [Clone ID: LO-FLUO-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LO-FLUO-1
Applications:	ELISA, FC
Recommended Dilution:	ELISA: 0.5 µg/ml. Flow Cytometry.
Host:	Rat
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	FITC conjugated Mouse immunoglobulin. Spleen cells from immunised LOU/c rats were fused with cells of the IR983F rat myeloma cell line.
Specificity:	This antibody reacts with Fluorescein Isothiocyanate. Avidity against FITC conjugated BSA is $2 \times 10^{10} M^{-1}$. This antibody binds to both Free FITC and FITC conjugated to proteins, and may be valuable for amplification of FITC based immunostaining.
Formulation:	PBS containing 50% Glycerol and 0.09% Sodium Azide Label: Biotin State: Liquid purified IgM fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography.
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

FITC (fluorescein isothiocyanate) is a fluorochrome dye that absorbs ultraviolet or blue light causing molecules to become excited and emit a visible yellow-green light. This emission ceases upon removal of the light causing the excitation. Fluorochrome labeling provides rapid, accurate localization of antigen-antibody interaction when one of the reactants is part of a cell, tissue or other biological structure. FITC is a commonly used marker for antibodies in immunofluorescent techniques since the conjugation of FITC to proteins is relatively easy and does not, in general, destroy the biological activity of the labeled protein. FITC is widely used as a hapten to label different proteins.

Synonyms:

Fluorescein Isothiocyanate