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#4744

## CD15/SSEA1 (MC480) Mouse mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> IF-IC, FC-FP, FC-L	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> N/A	<b>Source/Isotype:</b> Mouse IgM	<b>UniProt ID:</b> #P22083	<b>Entrez-Gene Id:</b> 2526
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### Product Usage Information

#### Application

Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)  
Flow Cytometry (Live)

#### Dilution

1:1600 - 1:3200  
1:1600  
1:1600

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #74180.

### Specificity/Sensitivity

SSEA1 Antibody detects endogenous levels of SSEA1 antigen.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with F9 teratoma cells (X-irradiated).

### Background

SSEA1 antibody detects a lactoseries oligosaccharide antigen that is expressed on the surface of mouse embryonal carcinoma and embryonic stem cells (1). This antigen is also found on early mouse embryos and both mouse and human germ cells, but is absent on human embryonic stem and carcinoma cells. Expression of SSEA1 in these human cell types increases upon differentiation, while on the mouse cell types differentiation leads to decreased expression (2).

### Background References

1. Solter, D. and Knowles, B.B. (1978) *Proc Natl Acad Sci USA* 75, 5565-9.
2. Fenderson, B.A. et al. (1987) *Dev Biol* 122, 21-34.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Applications Key

**IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

### Cross-Reactivity Key

**M:** Mouse

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