



## Anti SSEA-4 Mouse Monoclonal Antibody

### Product Information

<b>Catalog Number</b>	<b>ASA-0150</b>
<b>Description</b>	SSEA-4 is a globoseries carbohydrate antigen present on the surface of human teratocarcinoma stem cells (EC), human embryonic germ cells (EG) and human embryonic stem cells (ES), but not mouse ESC <sup>[1,2]</sup> .
<b>Size</b>	800 µL
<b>Antigen</b>	Human SSEA-4
<b>Classification</b>	Monoclonal antibody
<b>Host</b>	Mouse
<b>Target Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Application</b>	ICC
<b>Concentration</b>	Ready-to-use for ICC
<b>Shipping</b>	Dry ice
<b>Storage and Stability</b>	Store at -20°C. Stable for 6 months at -20°C. Avoid freeze-thaw cycles.
<b>Safety Precaution</b>	<b>PLEASE READ BEFORE HANDLING ANY FROZEN VIALS.</b> Please wear the appropriate Personal Protective Equipment (lab coat, thermal gloves, safety goggles and a face shield) when handling the vials. Handle the frozen vials with due caution.
<b>Restricted Use</b>	This product is for research use only and not intended for human or animal diagnostic or therapeutic uses.

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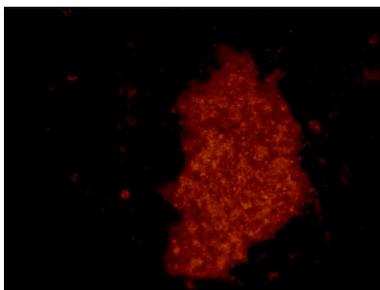


Fig. Anti-SSEA-4 staining of human ES cells

## Protocol

1. Fix cells on a cover slip for 1 hour.
2. Wash with PBS for 5 minutes (3 times).
3. Permeabilize the cells for 30 minutes.
4. Block in blocking solution for 1 hour.
5. Pipette 30  $\mu\text{L}$  1<sup>o</sup> antibody on the parafilm slide, put the cover slip face-down on it. Place the parafilm in a humidified chamber, 4°C / overnight.
6. Aspirate the 1st antibody and wash cells with PBS, 10 minutes x 2.
7. Aspirate PBS. Add 1 drop (or 45  $\mu\text{L}$ ) of 2<sup>o</sup> antibody (Goat anti-mouse) to each slide, incubate for 1 hour in the dark.
8. Wash cells with PBS for 10 minutes.
9. Aspirate PBS. Add 1 drop (or 45  $\mu\text{L}$ ) of DNA staining solution on cell slide for 8 minutes.
10. Wash cell with PBS in the dark.
11. Place one drop (or 20  $\mu\text{L}$ ) of mounting solution to labeled glass slide. Put the cell cover slip facing down in the mounting solution.
12. Take images immediately, or the slide can be stored at 4°C for up to 7 days.

## References

1. Przyborski SA (2001) "Isolation of human embryonal carcinoma stem cells by immunomagnetic sorting". *Stem Cells* **19**: 500-504.
2. Thomson JA, Itskovitz-Eldor J, Shapiro SS, Waknitz MA, Swiergiel JJ, Marshall VS, Jones JM (1998) "Embryonic stem cell lines derived from human blastocysts". *Science* **282**: 1145-1147.