



Anti SSEA-1 Mouse Monoclonal Antibody

Product Information

Catalog Number	ASA-0135
Description	SSEA-1 (stage-specific embryonic antigen 1), also called CD15 or Lewis x, is a carbohydrate adhesion molecule (not a protein) that can be expressed on glycoproteins, glycolipids and proteoglycans. It is reported to be highly expressed on the surface of murine pluripotent stem cells, but not human pluripotent stem cells [1,2].
Size	800 μ L
Antigen	Mouse SSEA-1
Classification	Monoclonal antibody
Host	Mouse
Target Isotype	IgM
Reactivity	Mouse
Application	ICC, IHC, FC, IP
Concentration	Ready-to-use for ICC
Shipping	Dry ice
Storage and Stability	Store at -20°C. Stable for 6 months at -20°C. Avoid freeze-thaw cycles.
Safety Precaution	PLEASE READ BEFORE HANDLING ANY FROZEN VIALS. 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.
Restricted Use	This product is for research use only and not intended for human or animal diagnostic or therapeutic uses.

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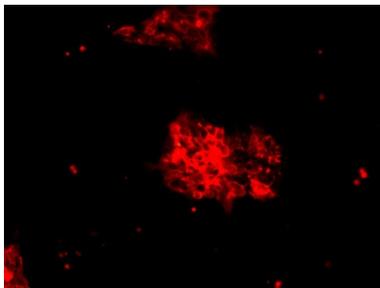


Fig. Anti-SSEA-1 staining of mouse ES cells.

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 μ L 1^o 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 μ L) of 2^o 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 μ 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 μ 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. Solter D, Knowles BB (1978). "Monoclonal antibody defining a stage-specific mouse embryonic antigen (SSEA-1)". *Proc Natl Acad Sci USA* **75**: 5565–5569.
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.