

Anti-human Lin28 Monoclonal Antibodies (mAbs) for Flow Cytometry and Immunofluorescence

Overview

Primorigen Biosciences' anti-human Lin28 (homolog A) mAbs, clones 3D1 and 4C9, have been validated for monitoring relative expression of Lin28 in stem cells using flow cytometry and indirect immunofluorescence (IIF).

Experimental Description & Results

Human induced pluripotent stem cells (hiPSCs) cells were maintained and passaged using Primorigen Biosciences' StemAdhere™ defined matrix for human pluripotent stem cells, (available exclusively from STEMCELL Technologies). After 5 passages, the cells were subjected to flow cytometry (Oct4, SSEA4, Lin28) and IFF (Lin28) analysis. For flow cytometry, anti-Lin28 mAbs (Clones 3D1 and 4C9) were directly conjugated with DyLight® 488 (Figures 1 and 3). For IIF, hiPSCs were plated on BD Matrigel™-coated coverslips, fixed, and probed with unlabeled anti-Lin28 mAb (Clone 3D1). After washing, bound anti-Lin28 was detected by Alexa Fluor® 555-conjugated goat anti-mouse secondary antibody (Figure 2).

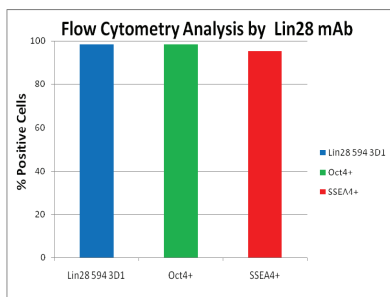


Figure 1. Flow cytometry testing for Lin28 (blue; Clone 3D1), Oct 4 (green), and SSEA4 (red), reveals highly pluripotent hiPSCs.

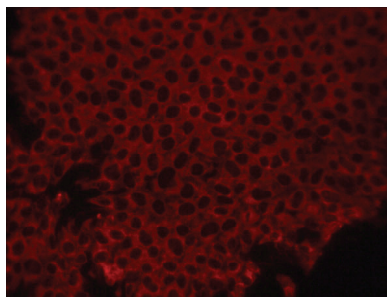


Figure 2. Strong cytosolic Lin28 expression measured using IIF with anti-Lin28 (Clone 3D1).

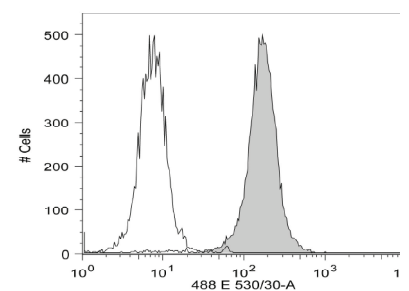


Figure 3: Robust Lin28 expression measured using DyLight® 488 labeled anti-Lin28 (Clone 4C9).

Product Information

Primorigen's Lin28 antibodies are available unconjugated; bulk pricing available.

- **Clone 3D1:** Product # S2110-100UG
- **Clone 4C9:** Product # S2090-100UG.