



Primorigen Biosciences is an emerging leader in developing integrated high throughput solutions for cellular characterization and preclinical research.

To support this mission, Primorigen offers an integrated portfolio of products, technologies and services, including primary neuronal cells and mesenchymal stem cells from over 2,000 animal models, multiplexed antibody assays to help characterize cellular development and function, custom cell and protein assay development enabled by Primorigen's proprietary Spot On Dots™ frameless microarray platform, and a wide range of pharmacological and screening services to support your research needs.

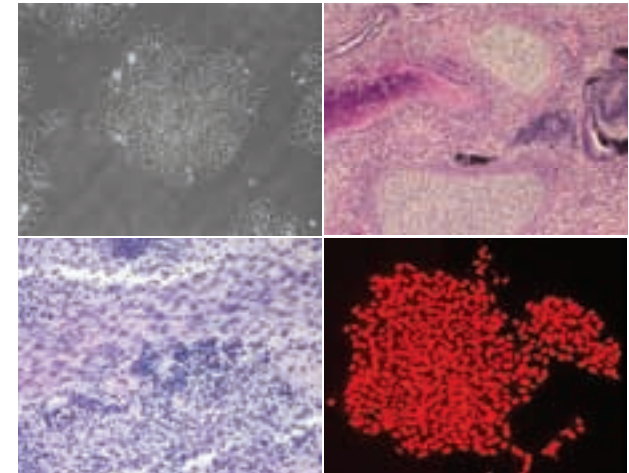
### *Partner with Primorigen...*

Primorigen Biosciences is actively seeking partnerships with organizations that have products or product concepts for a) primary and stem cells (including models of disease, assays and research tools), b) antibodies and recombinant proteins (including multiplexed assays), and c) new applications for the Spots On Dots platform (including high-content cellular assays and compound library screening).

Call us today to discuss partnership opportunities:

+1.866.372.7442

BD@primorigen.com.



### **StemAdhere™**

*Pluripotent Cell Growth Kit\**

### **StemAdhere™**

*Pluripotent Cell Growth Substrate\**

### **StemAdhere XF™**

*Xeno-Free  
Pluripotent Cell Growth Kit\**  
*(coming soon)*

### **Other Primorigen Products**

- Spots On Dots Protein & Cell-Based Assay Platform
- Stem Cell Antibodies & Recombinant Proteins
- Primary Mouse & Rat Neural and Mesenchymal Stem Cells
- 3D Culturing & Live Cell Assay Formats (Q3 2010)



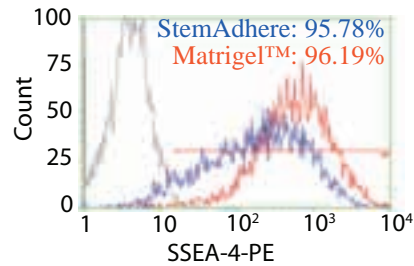
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\* Patent Pending  
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# StemAdhere™ & StemAdhere XF™

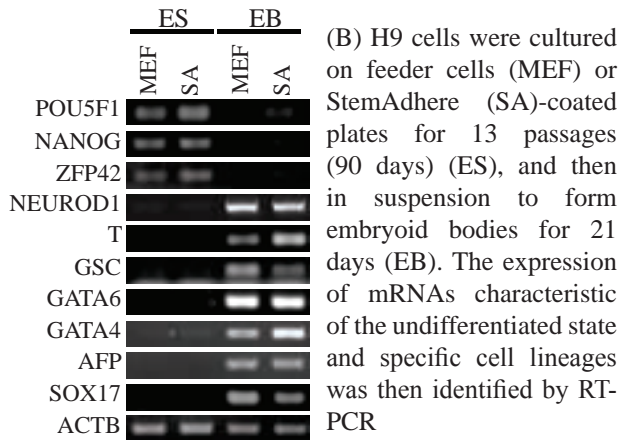
## Maintenance of Pluripotency

### A. SSEA-4 Expression

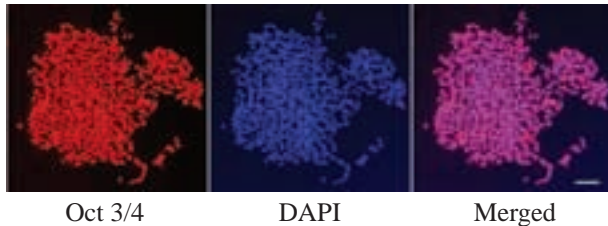


(A) The expression of SSEA-4 was analyzed by flow cytometry after 53 passages on StemAdhere

### B. Gene Expression



### C. Oct 3/4 Expression



(C) Immunocytochemistry to detect Oct 3/4 (red) in H9 cells cultured on StemAdhere-coated dishes for 13 passages (90 days). Nuclei were counterstained with DAPI. Scale bar indicates 100  $\mu$ m.

## Product Features

StemAdhere™ & StemAdhere XF™, developed in conjunction with leading stem cell researchers, are excellent defined substrates for maintaining and culturing pluripotent cells (ES & iPS). StemAdhere™ is...

- A human recombinant protein
- Produced under defined (StemAdhere) & xeno-free conditions (StemAdhere XF)
- Capable of maintaining cell pluripotency for over 40 passages!
- Available in 1 mg kit with optimized Dilution Buffer, Cell Release Buffer, and plates
- Bulk pricing also available

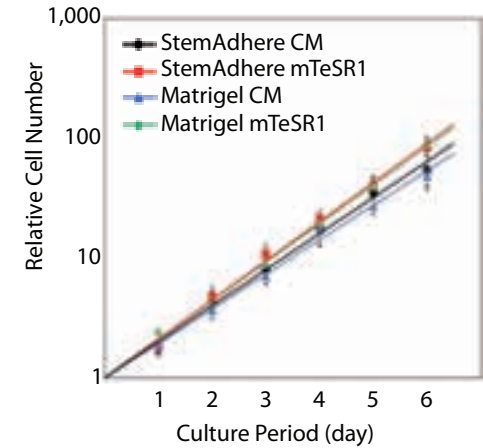
### StemAdhere™ Pluripotent Cell Growth Kit

- 1 mg StemAdhere Pluripotency Substrate
- 200 ml Dilution Buffer
- 200 ml Cell Release Buffer
- 16 ea 6-well polystyrene plates, non-TC treated, sterile individually wrapped

Product	Product #	Price
StemAdhere Pluripotent Cell Growth Kit (1 mg)	S2112	\$170
StemAdhere Pluripotency Substrate, 1MG	S2071-1MG	\$70
StemAdhere Pluripotency Substrate, bulk	S2071	Inquire
StemAdhere XF Pluripotency Substrate		Please Inquire

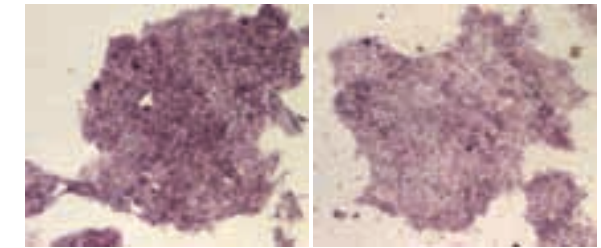
## Maintenance of Pluripotency

### D. Human ES cell proliferation on StemAdhere



(D) The proliferative activity of ES cells was evaluated on surfaces coated with either Matrigel™ or StemAdhere. H9 cells were seeded and cultured in MEF-conditioned media (CM) or mTeSR1™, and the cell number was counted after staining with WST-1 reagent. The data indicate means  $\pm$  SEM of individual experiments (n = 5)

### E. Alkaline Phosphatase Expression



(E) Histochemistry revealing alkaline phosphatase activity (purple) in H9 cells cultured on Matrigel or StemAdhere after 68 passages