LIFE SCIENCE

Pluripotent Stem Cell Marker Antibodies

Anti-SSEA-3, SSEA-4, SSEA-1 Monoclonal Antibodies

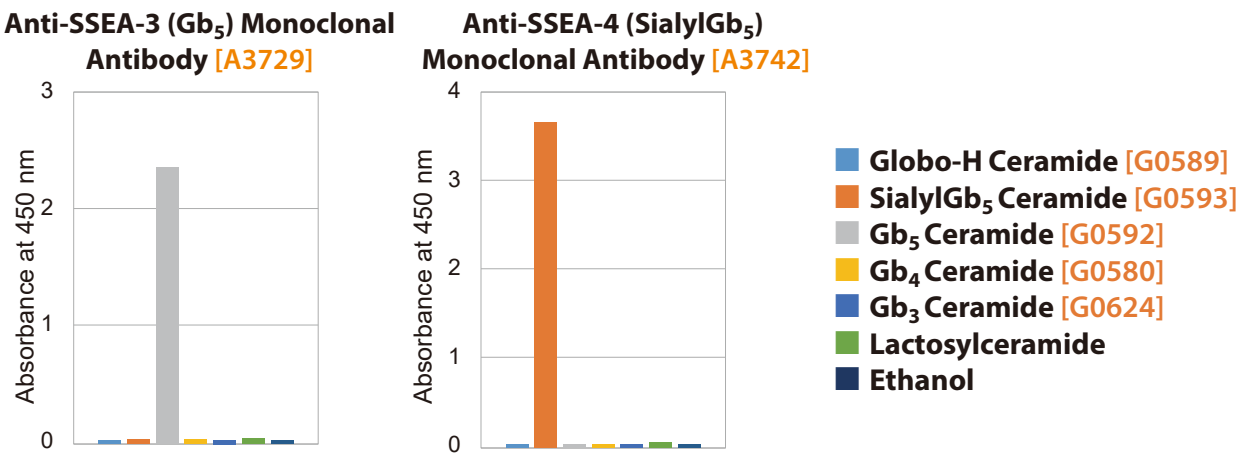
Stage-Specific Embryonic Antigens (SSEAs) are glycan antigens known to vary in their expression levels across the stages of embryonic development and cell differentiation.[1)] SSEA-1, also called Lewis X Antigen, is expressed on the surface of mouse embryonic stem cells (ES cells) and induced pluripotent stem cells (iPS cells) and is often used as a mouse pluripotent stem cell marker. SSEA-3 and SSEA-4 are the Globo-series Glycosphingolipids Gb_5 and SialylGb_5, and are localized on the cell surface of human embryonic cancer cells (EC cells), ES cells, iPS cells and Muse (Multilineage-differentiating Stress Enduring) cells, where they are used as markers. SSEA-4 has also been shown to be overexpressed in many cancers, suggesting a correlation with disease progression.[2)]
TCI has a wide line-up of mouse monoclonal antibodies, synthetic glycans and glycan conjugates for SSEA-3, SSEA-4, SSEA-1.

Anti-SSEA-3 (Gb_5) Monoclonal Antibody 0.1mg/vial [A3729]
Isotype: Mouse IgG3
Specificity: SSEA-3 (Gb_5)

Anti-SSEA-4 (SialylGb_5) Monoclonal Antibody 0.1mg/vial [A3742]
Isotype: Mouse IgG2b
Specificity: SSEA-4 (SialylGb_5)

Anti-Lewis X Monoclonal Antibody 0.1mg/vial [A2578]
Isotype: Mouse IgM
Specificity: Lewis X, SSEA-1

Binding specificity of A3729 and A3742



ELISA plates were coated with the indicated glycolipids. Subsequently, anti-SSEA-3 antibody [A3729] or anti-SSEA-4 antibody [A3742] were added to the wells and allowed to incubate. Primary antibodies were detected using appropriate secondary antibodies.
A3729 and A3742 show high specificity for each antigen.

Pluripotent Stem Cell Marker Antibodies: Anti-SSEA-3, SSEA-4, SSEA-1 Monoclonal Antibodies

Oligosaccharide Structure	Product		
	Glycan	Conjugate	Antibody
SSEA-3 (Gb_5)	**Gb_5 Ceramide** 1mg / 5mg [G0592] **Gb_5-PrN_3** 1mg / 5mg [G0599] **Globopentaose** Please contact us. [G0434]	**HSA-Gb_5** 0.1mg/vial [H1777] **Gb_5-β-*p*NP** 5mg [G0355]	**Anti-SSEA-3 (Gb_5) Monoclonal Antibody** 0.1mg/vial [A3729]
SSEA-4 ($SialylGb_5$)	**Gb_5 Ceramide** 1mg / 5mg [G0580]		**Anti-SSEA-4 ($SialylGb_5$) Monoclonal Antibody** 0.1mg/vial [A3742]
Lewis X/SSEA-1	**SSEA-1-$PrNH_2$** Please contact us. [S0946]	**HSA-Lewis X** 0.1mg/vial [H1719] **Lewis X-Magnetic Beads** 0.2mg/vial [L0381]	**Anti-Lewis X Monoclonal Antibody** 0.1mg/vial [A2578]

References 1) J. K. Henderson, P. W. Andrews, *et al.*, *Stem Cells* **2002**, *20*, 329. https://doi.org/10.1634/stemcells.20-4-329

2) K. Sivasubramaniyan, G. Niederfellner, H. J. Bühring, *et al.*, *Glycobiology* **2015**, *25*, 902. https://doi.org/10.1093/glycob/cwv032

Ordering and Customer Service

TCI AMERICA
Tel : 800-423-8616 / 503-283-1681
Fax : 888-520-1075 / 503-283-1987
E-mail : Sales-US@TCIchemicals.com

TCI EUROPE N.V.
Tel : +32 (0)3 735 07 00
Fax : +32 (0)3 735 07 01
E-mail : Sales-EU@TCIchemicals.com

TCI Deutschland GmbH
Tel : +49 (0)6196 64053-00
Fax : +49 (0)6196 64053-01
E-mail : Sales-DE@TCIchemicals.com

Tokyo Chemical Industry UK Ltd.
Tel : +44 (0)1865 78 45 60
E-mail : Sales-UK@TCIchemicals.com

梯希爱(上海)化成工业发展有限公司
Tel : 800-988-0390 / 021-67121386
Fax : 021-6712-1385
E-mail : Sales-CN@TCIchemicals.com

Tokyo Chemical Industry (India) Pvt. Ltd.
Tel : 1800 425 7889 / 044-2262 0909
E-mail : Sales-IN@TCIchemicals.com

TOKYO CHEMICAL INDUSTRY CO., LTD.
Tel : +81 (0)3-5640-8878
E-mail : globalbusiness@TCIchemicals.com