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OriGene EU

AM20368PU-S

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Monoclonal Antibody to SSEA-4 - Purified

Embryonic Stem Cell Marker, SSEA4, Stage-Specific Embryonic Antigen-4 Alternate names:

Catalog No.: AM20368PU-S

Quantity: 25 ug

Concentration: 0.5 mg/ml

Background: SSEA-4 specific antibody, clone MC-813, is reactive with Stage-Specific Embyronic

> Antigen-4, a carbohydrate antigen expressed on human teratocarcinoma cells (EC), embryonic stem cells (ES) and embryonic germ cells. It is also expressed on a subset of mesenchymal stem cells, erythrocytes, the erythroleukemic myeloid cell line K562,

unfertilized oocytes and early cleaved stage oocytes.

Host / Isotype: Mouse / IgG3 Recommended AM03097PU-N **Isotype Controls:**

Clone: MC-813-70

Immunogen: Human embryonal carcinoma cell line 2102Ep

State: Liquid purified Ig fraction Format:

Purification: Affinity Chromatography

Buffer System: PBS containing 0.05% BSA and 0.05% Sodium Azide

Applications: Flow Cytometry (Cell Surface): 0.1 µg/10e6 cells.

Immunohistochemistry on Paraffin: Reported in literature.

Western blot: Reported in literature.

Immunoprecipitaion: Reported in literature.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: Recognizes SSEA-4.

Cross-reaction with Mouse, Monkey, Chicken, Dog and Rabbit has been reported in

publications for clone MC-813-70.

Species Reactivity: Tested: Human.

Expected from sequence similarity: Chicken, Dog, Mouse, New World Monkey, Rabbit.

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage:

> Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Kannagi, R., et al., EMBO J. 2: 2355 (1983)

> 2. Gang E.J. et al. Blood. Feb 15;109(4):1743-51 (2007) 3. Henderson, J.K., et al. Stem Cells. 20: 329 (2002) 4. Müller T, et al. Hum Reprod. 2009 Feb 27 (2009)

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



OG/20130514



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Pictures:

Cell surface flow cytometric analysis of SSEA-4 on 2102Ep cells using 0.1 $\mu g/10e6$ cells of AM20368PU-S. Green histogram represents isotype control Red represents AM20368PU-S SSEA-4 antibody.

