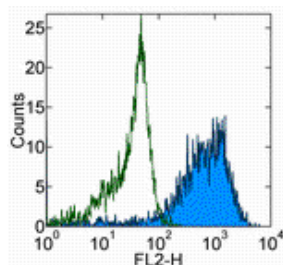


Anti-Human TRA-1-60 (Podocalyxin) PE

Catalog Number: 12-8863

RUO: For Research Use Only



Staining of 2102Ep human embryonal carcinoma cell line with 0.5 ug of Mouse IgM Isotype Control PE (cat. 12-4752) (open histogram) or 0.5 ug of Anti-Human TRA-1-60 PE (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human TRA-1-60 (Podocalyxin) PE

REF **Catalog Number:** 12-8863

Clone: TRA-1-60

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgM

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

Description

The TRA-1-60 antibody recognizes a protein expressed on undifferentiated human embryonic stem cells (ES), embryonal carcinoma cells (EC), and embryonic germ cells (EG). Like other stem cell specific markers, the epitope recognized by the TRA-1-60 antibody is lost upon cell differentiation. Contrary to early reports that the TRA-1-60 epitope can be destroyed by neuraminidase digestion, new studies have shown that TRA-1-60 recognizes a neuraminidase resistant antigen. The TRA-1-60 antibody is known to specifically recognize a carbohydrate epitope on a keratan sulfated glycoprotein recently identified as podocalyxin, a member of the CD34-related family of sialomucins. Podocalyxin is a transmembrane glycoprotein originally identified on epithelial glomerular cells known as podocytes, and the protein has also been implicated in the development of aggressiveness in a variety of cancers, including breast and prostate cancer.

Applications Reported

This TRA-1-60 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This TRA-1-60 antibody has been tested by flow cytometric analysis of the human embryonal carcinoma (EC) line 2102Ep. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Schopperle WM, DeWolf WC. The TRA-1-60 and TRA-1-81 human pluripotent stem cell markers are expressed on podocalyxin in embryonal carcinoma. *Stem Cells*. 2007 Mar;25(3):723-30. (**TRA-1-60**, WB, PubMed)

Chin AC, Fong WJ, Goh LT, Philp R, Oh SK, Choo AB. Identification of proteins from feeder conditioned medium that support human embryonic stem cells. *J Biotechnol*. 2007 Jun 30;130(3):320-8. (**TRA-1-60**, FC, PubMed)

Badcock G, Pigott C, Goepel J, Andrews PW. The human embryonal carcinoma marker antigen TRA-1-60 is a sialylated keratan sulfate proteoglycan. *Cancer Res*. 1999 Sep 15;59(18):4715-9. (**TRA-1-60**, WB, PubMed)

Andrews PW, Banting G, Damjanov I, Arnaud D, Avner P. Three monoclonal antibodies defining distinct differentiation antigens associated with different high molecular weight polypeptides on the surface of human embryonal carcinoma cells. *Hybridoma*. 1984 Winter;3(4):347-61. (PubMed)

Related Products

12-4752 Mouse IgM Isotype Control PE

12-8883 Anti-Human TRA-1-81 (Podocalyxin) PE (TRA-1-81)
14-8813 Anti-Human/Mouse SSEA-1 Purified (eBioMC-480 (MC-480))
14-8833 Anti-Human/Mouse SSEA-3 Purified (eBioMC-631 (MC-631))
14-8843 Anti-Human SSEA-4 Purified (eBioMC-813-70 (MC-813-70))

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