

# TRA-1-60 (Podocalyxin) Monoclonal Antibody (TRA-1-60), PE, eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	TRA-1-60
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_891602

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	10 Publications

## Product Specific Information

**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 neurominidase 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.

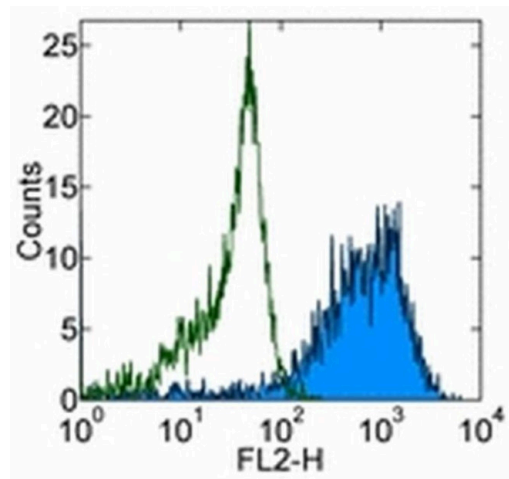
**Applications Reported:** This TRA-1-60 antibody has been reported for use in flow cytometric analysis.

**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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For TRA-1-60 (Podocalyxin) Monoclonal Antibody (TRA-1-60), PE, eBioscience™



**TRA-1-60 (Podocalyxin) Antibody (12-8863-82) in Flow**  
Staining of 2102Ep human embryonal carcinoma cell line with 0.5 µg of Mouse IgM Isotype Control PE (Product # 12-4752) (open histogram) or 0.5 µg of Anti-Human TRA-1-60 PE (filled histogram). Total viable cells were used for analysis.

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11 References

Immunocytochemistry (1)

Cell stem cell	Year 2017
<b>Analysis of Transcriptional Variability in a Large Human iPSC Library Reveals Genetic and Non-genetic Determinants of Heterogeneity.</b>	Species Human
"12-8863 was used in Immunocytochemistry to examine the sources of gene expression variability in 317 human induced pluripotent stem cell lines from 101 individuals."	
Authors: Carcamo-Orive I,Hoffman GE,Cundiff P,Beckmann ND,D'Souza SL,Knowles JW,Patel A,Papatsenko D,Abbasi F,Reaven GM,Whalen S,Lee P,Shahbazi M,Henrion MYR,Zhu K,Wang S,Roussos P,Schadt EE,Pandey G,Chang R,Quertermous T,Lemischka I	

Flow Cytometry (10)

Journal of cellular physiology	Year 2021
<b>Characterization of intracellular buffering power in human induced pluripotent stem cells and the loss of pluripotency is delayed by acidic stimulation and increase of NHE1 activity.</b>	Species Human
"12-8863-82 was used in Flow cytometry/Cell sorting to establish a quantitative model of passive during differentiation and demonstrate that maintenance of NHE1 at a higher level is of critical importance for pluripotency retention in hiPSCs."	
Authors: Lee SP,Chao SC,Chou MF,Huang SF,Dai NT,Wu GJ,Tsai CS,Loh SH,Tsai YT	
	Dilution 1:100

Cell reports	Year 2019
<b>Ultra-High-Frequency Reprogramming of Individual Long-Term Hematopoietic Stem Cells Yields Low Somatic Variant Induced Pluripotent Stem Cells.</b>	Species Human
"12-8863-82 was used in Flow Cytometry to suggest LT-HSCs may become the preferred cell source for the production of clinical-grade iPSCs."	
Authors: Wang K,Guzman AK,Yan Z,Zhang S,Hu MY,Hamaneh MB,Yu YK,Tolu S,Zhang J,Kanavy HE,Ye K,Bartholdy B,Bouhassira EE	

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