

**Anti-Human TRA-1-60
Antibody, Clone TRA-1-60R, PE**



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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Antibodies

Mouse monoclonal IgM antibody
against human, rhesus, rabbit
TRA-1-60 (podocalyxin), PE-conjugated

Catalog #60064PE
#60064PE.1

100 Tests 5 µL/test
25 Tests 5 µL/test

Product Description

The TRA-1-60R antibody reacts with TRA-1-60, a > 200 kDa pluripotent stem cell-specific protein expressed on the surface of undifferentiated human embryonic stem (ES), induced pluripotent stem (iPS), embryonal carcinoma (EC), and embryonic germ (EG) cells, as well as rhesus monkey ES cell lines. A soluble form of TRA-1-60 has been detected in serum of patients with embryonal carcinoma. The epitope, which is lost upon cell differentiation, contains sialic acid, and is associated with a large-molecular-mass transmembrane protein named podocalyxin. Though sialylated, the epitope recognized by the TRA-1-60R antibody is resistant to treatment with neuraminidase.

Target Antigen Name:	TRA-1-60 (Podocalyxin)
Alternative Names:	Podocalyxin, TRA-1
Gene ID:	5420
Species Reactivity:	Human, Rhesus, Rabbit
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	TRA-1-60R
Isotype:	IgM, kappa
Immunogen:	Human embryonal carcinoma cell line 2102Ep cl.2A6
Conjugate:	PE (Phycoerythrin)

Applications

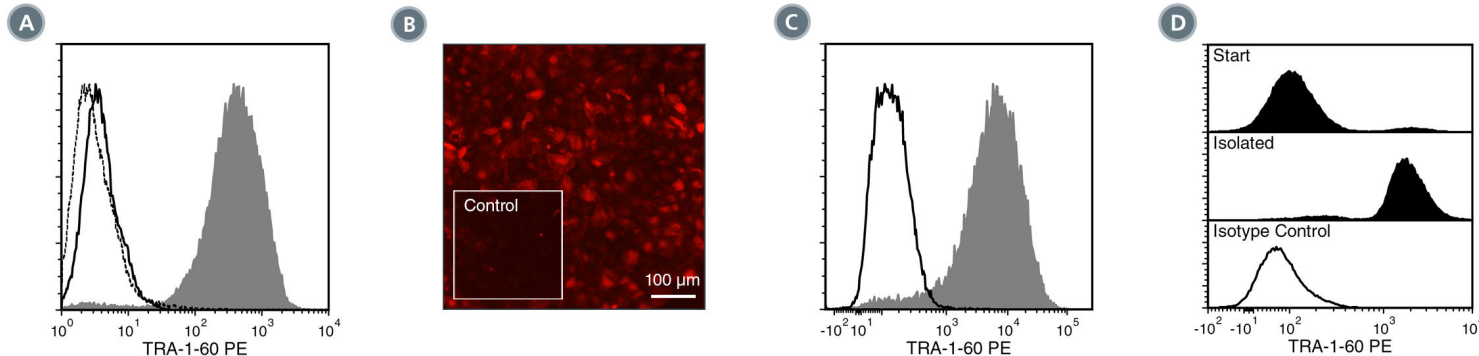
Verified:	CellSep, FC, ICC, IF
Reported:	FC
Special Applications:	This antibody clone has been verified for labeling human ES and iPS cells grown in TeSR™-E8™ (Catalog #05940), mTeSR™1 (Catalog #85850), and TeSR™2 (Catalog #05860), and for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human ES/iPS Cell TRA-1-60 Positive Selection Kit (Catalog #18166; partial blocking may be observed) and EasySep™ hESC/hiPSC SSEA-4 Positive Selection (Catalog #18165).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin
Purification:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com .
Directions for Use:	The suggested use of this antibody is: FC, 5 µL per 1 x 10 ⁶ cells in 100 µL; ICC/IF, 100X dilution. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Flow cytometry analysis of human ES cells (filled histogram) or HT1080 fibrosarcoma cells (negative control; dashed line histogram) labeled with Anti-Human TRA-1-60 Antibody, Clone TRA-1-60R, PE. Labeling of human ES cells with Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, PE is shown (Catalog #60069PE) (solid line histogram).

(B) Human ES cells were cultured in mTeSRTM1 on Corning® Matrigel®-coated glass slides, then fixed and labeled with Anti-Human TRA-1-60 Antibody, Clone TRA-1-60R, PE. Inset shows cells labeled with Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, PE.

(C) Flow cytometry analysis of human iPS cells labeled with Anti-Human TRA-1-60 Antibody, Clone TRA-1-60R, PE (filled histogram) or Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, PE (solid line histogram).

(D) Flow cytometry analysis of human ES cells processed with the EasySepTM Human ES/iPS Cell TRA-1-60 Positive Selection Kit from a mixed population of ES cells and HT1080 fibrosarcoma cells and labeled with Anti-Human TRA-1-60 Antibody, Clone TRA-1-60R, PE. Histograms show labeling of the starting population containing ~5% ES cells (Start) and the isolated cells (Isolated). ~5% ES cells (Start) and the isolated cells (Isolated). Labeling with Mouse IgM, kappa Isotype Control Antibody, Clone MM-30, PE is shown (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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