

#4745 Store at -20°C

TRA-1-81 (TRA-1-81) Mouse mAb



✓ 100 µl

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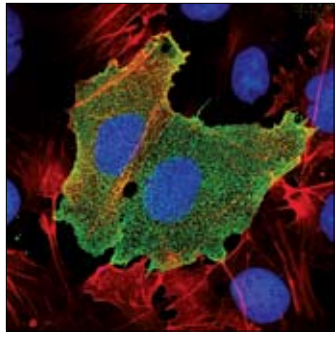
This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity	Isotype
IHC-P, IF-IC, F Endogenous	H	Mouse IgM**

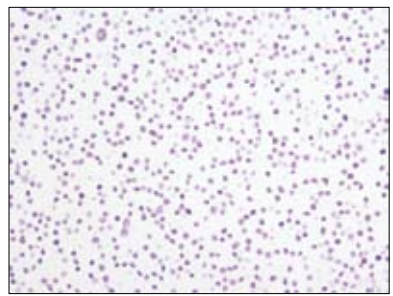
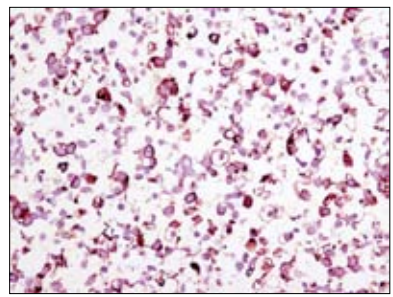
Background: TRA-1-60 and TRA-1-81 antibodies detect antigens present on the surface of human stem, teratocarcinoma, and embryonic germ cells (1). TRA-1-60 reacts with a neuraminidase sensitive epitope of a proteoglycan (2,3), while TRA-1-81 reacts with a neuraminidase insensitive epitope on the same antigen. Recently this antigen has been proposed to be a form of the protein podocalyxin (4). TRA-1-60 is also detected in the serum of patients with germ cell tumors (5,6).

Specificity/Sensitivity: TRA-1-81 detects endogenous levels of TRA-1-81 antigen.

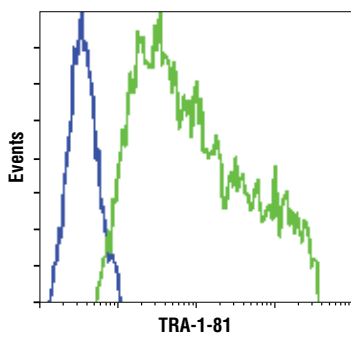
Source/Purification: Monoclonal antibody is produced by immunizing animals with human embryonic carcinoma 2102Ep cl.2A6 cells.



Confocal immunofluorescent analysis of NTERA2 cells using TRA-1-81 (TRA-1-81) Mouse mAb (green). Actin filaments have been labeled with DY-554 phalloidin (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).



Immunohistochemical analysis of paraffin-embedded NTERA (positive, upper) and Jurkat (negative, lower) cell pellets using TRA-1-81 (TRA-1-81) Mouse mAb.



Flow cytometric analysis of unpermeabilized Jurkat cells (blue) and unpermeabilized NCCIT cells (green) using TRA-1-81 (TRA-1-81) Mouse mAb.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

****Anti-mouse secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Immunofluorescence (IF-IC)*	1:1000
Flow Cytometry*	1:200
Immunohistochemistry (Paraffin)	1:100
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

Background References:

- (1) Andrews, P.W. et al. (1987) *Int J Androl* 10, 95–104.
- (2) Andrews, P.W. et al. (1991) *Recent Results Cancer Res* 123, 63–83.
- (3) Badcock, G. et al. (1999) *Cancer Res* 59, 4715–9.
- (4) Schopperle, W.M. and DeWolf, W.C. (2007) *Stem Cells* 25, 723–30.
- (5) Thomson, J.A. et al. (1998) *Science* 282, 1145–7.
- (6) Marrink, J. et al. (1991) *Int J Cancer* 49, 368–72.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.