

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



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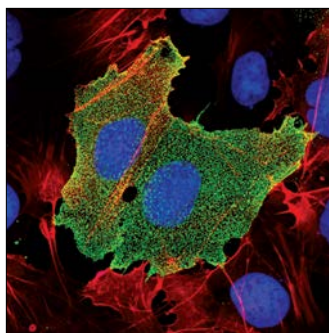
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Applications	Species Cross-Reactivity	Isotype
IHC-P, IF-IC, F Endogenous	H	Mouse IgM**

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 DyLight™ 554 Phalloidin #13054 (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).

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

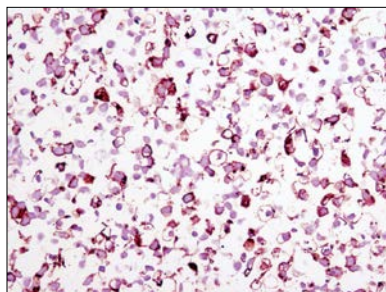
Immunofluorescence (IF-IC)*	1:1000
Flow Cytometry*	1:1600
*Note: Due to the extracellular location of the epitope, permeabilization (detergents or alcohols) should be omitted.	
Immunohistochemistry (Paraffin)	1:100
Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.	
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112
Detection reagent:	SignalStain® Boost (HRP, Mouse) #8125

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

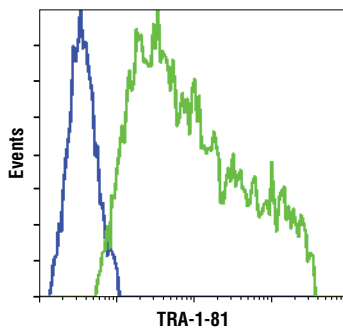
Please visit www.cellsignal.com for a complete listing of recommended companion products.

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.



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.

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