# 4745

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



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### For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IHC-P, IF-IC, FC-FP, FC-L	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 200-400	Source/Isotype: Mouse IgM	<b>UniProt ID:</b> #O00592	Entrez-Gene Id: 5420
Product Usage		Application				Dilution
Information		Immunohistochemist	ry (Paraffin)			1:100
		Immunofluorescence	(Immunocytochem	istry)		1:1000
		Flow Cytometry (Fixed	d/Permeabilized)			1:1600
		Flow Cytometry (Live)				1:1600
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.				
Specificity/Sensitivity		TRA-1-81 detects endogenous levels of TRA-1-81 antigen.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with human embryonal carcinoma 2102Ep cl.2A6 cells.				
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(S) 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).				
Background References		1. Andrews, P.W. et al. (1987) <i>Int J Androl</i> 10, 95-104. 2. Andrews, P.W. et al. (1991) <i>Recent Results Cancer Res</i> 123, 63-83. 3. Badcock, G. et al. (1999) <i>Cancer Res</i> 59, 4715-9. 4. Schopperle, W.M. and DeWolf, W.C. (2007) <i>Stem Cells</i> 25, 723-30. 5. Thomson, J.A. et al. (1998) <i>Science</i> 282, 1145-7. 6. Marrink, J. et al. (1991) <i>Int J Cancer</i> 49, 368-72.				

## **Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Applications Key

**IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

### Cross-Reactivity Key

**H:** Human

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