

#4745 Store at -20C

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



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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<b>Applications:</b> IHC-P, IF-IC, FC-FP, FC-L	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 200-400	<b>Source/Isotype:</b> Mouse IgM	<b>UniProt ID:</b> #O00592	<b>Entrez-Gene Id:</b> 5420
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<b>Product Usage Information</b>	<b>Application</b> Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)	<b>Dilution</b> 1:100 1:1000 1:1600 1:1600
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	TRA-1-81 detects endogenous levels of TRA-1-81 antigen.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with human embryonal carcinoma 2102Ep cl.2A6 cells.	
<b>Background</b>	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).	
<b>Background References</b>	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.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>FC-L:</b> Flow Cytometry (Live)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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