Revision 5

Store at -20C

#4746

TRA-1-60(S) (TRA-1-60(S)) Mouse mAb

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P, IF-IC, FC-FP, FC-L	H	Endogenous	200-400	Mouse IgM	#O00592	5420

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:400 - 1:1600
Immunofluorescence (Immunocytochemistry)	1:1600 - 1:3200
Flow Cytometry (Fixed/Permeabilized)	1:800 - 1:1600
Flow Cytometry (Live)	1:800 - 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-1-60(S) (TRA-1-60(S)) Mouse mAb detects endogenous levels of the neuraminidase-sensitive TRA-1-60 antigen.

Source / Purification

Monoclonal antibody is produced by immunizing animals with human embryonic 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) *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.

Species Reactivity

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **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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Limited Uses

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