

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TRA-1-81 in flow cytometry.
Source	Monoclonal Mouse IgM Clone # TRA-1-81
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonal carcinoma cell line 2102Ep
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	5 µL/10 ⁶ cells	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Flow Cytometry</p> <p>Detection of TRA-1-81 in BG01V Human Cells by Flow Cytometry. BG01V human embryonic stem cells were stained with Mouse Anti-Human TRA-1-81 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB8495G, filled histogram) or isotype control antibody (Catalog # IC015G, open histogram). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Immunocytochemistry</p> <p>TRA-1-81 in BG01V Human Embryonic Stem Cells. TRA-1-81 was detected in immersion fixed BG01V human embryonic stem cells using Mouse Anti-Human TRA-1-81 Alexa Fluor® 488-conjugated Monoclonal Antibody (green; Catalog # FAB8495G) at 10 µg/mL for 3 hours at room temperature. Cells were counterstained with DAPI (blue). Specific staining was localized to cell membranes. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

The TRA-1-81 antibody reacts with a high-molecular-mass carbohydrate epitope on the surface of human embryonal carcinoma (EC), embryonic germ (EG), embryonic stem (ES), and induced pluripotent stem (iPS) cells. TRA-1-81 is an epitope expressed on podocalyxin, also known as Podocalyxin-Like Protein-1 (PCLP1 or PODXL), a type I transmembrane glycoprotein.

References:

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