Human TRA-1-85/CD147 Antibody

Monoclonal Mouse IgG_1 Clone # TRA-1-85

Catalog Number: MAB3195

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TRA-1-85 antigen in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # TRA-1-85
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	2120Ep human embryonal carcinoma cell line
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

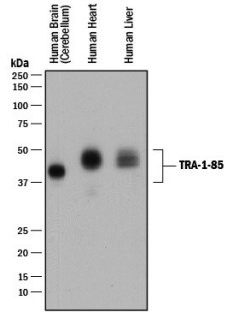
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10^6 cells	See Below
Immunocytochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

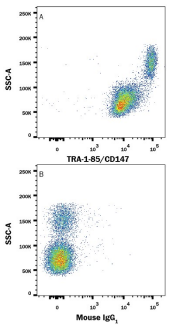
DATA

Western Blot



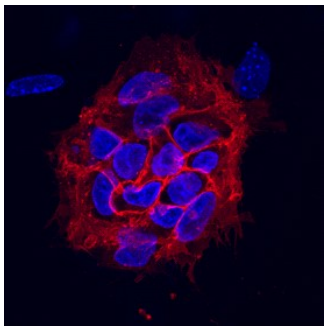
Detection of Human TRA-1-85/CD147 by Western Blot. Western blot shows lysates of human brain (cerebellum) tissue, human heart tissue, and human liver tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human TRA-1-85/CD147 Monoclonal Antibody (Catalog # MAB3195) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for TRA-1-85/CD147 at approximately 40-60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of TRA-1-85/CD147 in Human PBMCs by Flow Cytometry. Human peripheral blood lymphocytes and monocytes were stained with either (A) Mouse Anti-Human TRA-1-85/CD147 Monoclonal Antibody (Catalog # MAB3195) or (B) Mouse IgG_1 Isotype Control (Catalog # MAB002) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B).

Immunocytochemistry



TRA-1-85/CD147 in BG01V Human Embryonic Stem Cells. TRA-1-85/CD147 was detected in immersion fixed BG01V human embryonic stem cells on irradiated mouse embryonic fibroblasts using Mouse Anti-Human TRA-1-85/CD147 Monoclonal Antibody (Catalog # MAB3195) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

The TRA-1-85 antigen, also known as OKa blood group antigen, is a specific epitope within the protein known as Basigin, EMMPRIN and CD147. It is a cell surface determinant expressed on almost all human cell types. This antibody has been used in somatic cell hybrid studies to identify tissues of partial human origin (1, 2).

References:

1. Williams, B.P. *et al.* (1988) Immunogenetics. **27**:322.
2. Spring, F.A. *et al.* (1997) Eur. J. Immunol. **27**:891.

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