

Monoclonal anti-human TRA1 antibody (clone 2H3)

Mouse IgG_{2a}, κ

Cat. No. IBATA0623

Immunogen: Recombinant human TRA1(676-803aa) purified from *E. coli*

NCBI Accession No.: NP_003290

Isotype: Mouse IgG_{2a} heavy chain and κ light chain

Clone: Anti-human TRA1 mAb, clone 2H3, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human TRA1 protein.

Description: Tumor rejection antigen 1(TRA1) is expressed on the surface of human teratocarcinoma stem cells (EC), human embryonic germ cells (EG) and human embryonic stem cells (ES). TRA1 is a marker protein of these stem cells.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol.

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, ICC/IF and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:1000, ICC/IF is 1:100 and Flow cytometry is 1:200.

Application: ELISA, WB, ICC/IF, Flow cyt

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

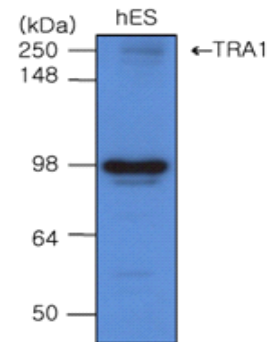
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Product information

Western blot analysis

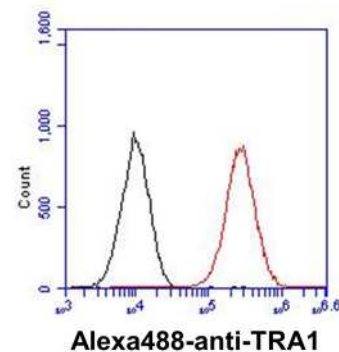
The cell lysates of hES(20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human TRA1 (1:500). Protein were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : ES cell lysate



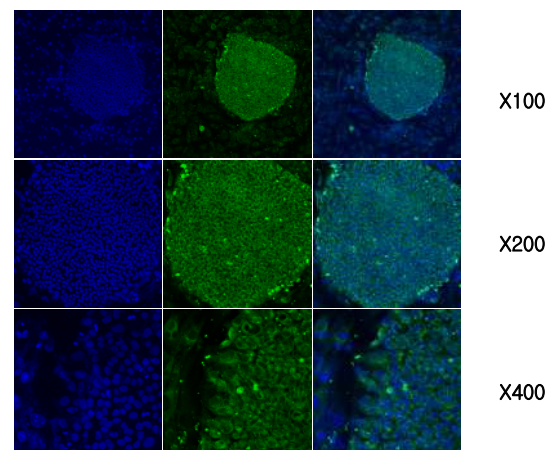
Flow cytometry

Flow cytometry analysis of TRA1 in U87MG cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



ICC/IF analysis

Immunofluorescence staining of human ES cell colony with monoclonal anti-human TRA1 antibody (2H3)

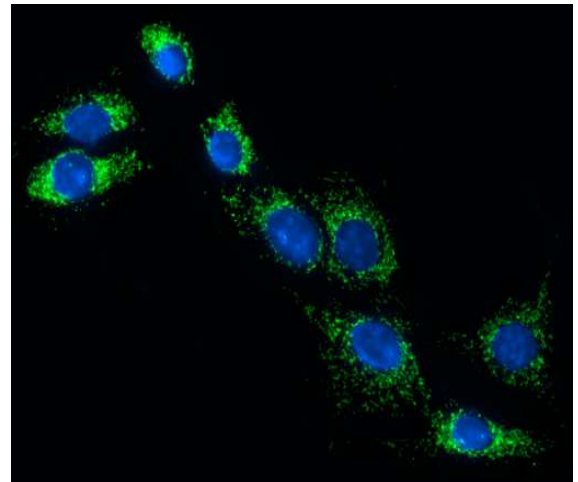


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ICC/IF analysis

ICC/IF analysis of TRA1 in Balb/3T3 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human TRA1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



General references:

- Wulf GM, *et al.*, (2002) *J Biol. Chem.* 277(50)47976-47979
Hamdane M, *et al.*, (2002) *J Mol Neurosci.* 19(3) ; 275-287
Zheng H, *et al.*, (2002) *Nature* 419(6909) 853-857
Lu, K.P. *et al.*, (1996) *Nature* 380(6574) 544-547.
Campbell, H.D., *et al.*, (1997) *Genomics* 44(2), 157-162

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