Human GRP94/HSP90B1 antibody

Catalog Number: ATA0623

PRODUCT INFORMATION

Catalog number
ATA0623

Clone No.
2H3

Product type
Monoclonal Antibody

UnitProt No.
P14625

NCBI Accession No.
NP_003290

Alternative Names
94 kDa glucose-regulated protein, 94 kDa glucose-regulated protein, HSP90B1, GP96, TRA1, Tumor rejection antigen 1, GRP94, 94 kDa glucose-regulated protein 94 kDa glucose regulated protein, ECGP, Endoplasmin, Endothelial cell (HBMEC) glycoprotein, Glucose regulated protein 94kDa, gp96, gp96 homolog, GRP 9, Heat shock protein 90 kDa beta member 1, Stress inducible tumor rejection antigen GP96, Tumor rejection antigen gp96.

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

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

Isotype
IgG2a kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF, FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and

reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

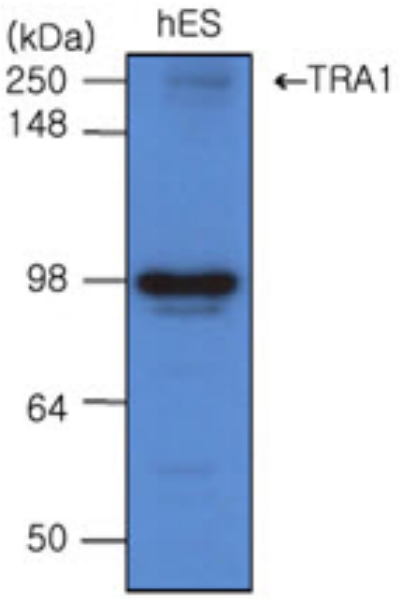
Tumor rejection antigen 1 (TRA1) is expressed on the surface of human teratocarcinoma stem cells (EC), human embryonic germ cells (EG) and human embryonic stem cells (ES). TRA1 is a marker protein of these stem cells.

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.

DATA

Western blot analysis (WB)



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

Immunocytochemistry/Immunofluorescence (ICC/IF)

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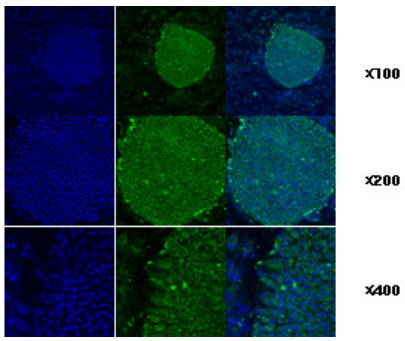
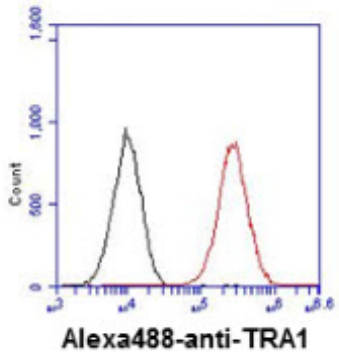


Immunofluorescence staining of human ES cell colony with monoclonal anti-human TRA1 antibody (2H3)

Flow cytometry (FACS)



Flow cytometry analysis of TRA1 in U87MG cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).