abcam

Product datasheet

Anti-TRA-1-60 (R) antibody [TRA-1-60] ab16288

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Overview

Product name	Anti-TRA-1-60 (R) antibody [TRA-1-60]
Description	Mouse monoclonal [TRA-1-60] to TRA-1-60 (R)
Host species	Mouse
Tested applications	**Suitable for:** ICC, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Rabbit
Immunogen	Tissue, cells or virus corresponding to Human TRA-1-60 (R). Human embryonal carcinoma cell line 2102Ep cl.2A6.
Positive control	WB: Human embryonic stem cell lysate. ICC: Human embryonic stem cells.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
Purity	Tissue culture supernatant
Purification notes	Tissue culture supernatant was cross flow concentrated and buffer exchanged to PBS
Clonality	Monoclonal

Clone number	TRA-1-60
Myeloma	P3x66Ag.8-Sp2/0
Isotype	IgM

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab16288 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

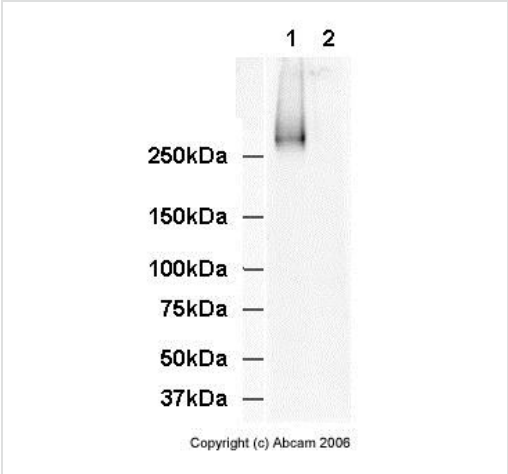
Application	Abreviews	Notes
ICC		1/500.
WB	★★★☆☆ (1)	Use a concentration of 1 - 10 µg/ml. Detects a band of approximately 250 kDa (predicted molecular weight: 235 kDa).

Target

Relevance TRA-1-60 is a marker of Human Embryonic Stem, Germ and Carcinoma Cells but Not Mouse Embryonic Stem, Germ or Carcinoma Cells. The TRA-1-60 target has been reported to be a carbohydrate epitope associated with podocalyxin (PubMed IDs: 10493530, 17124010).

Cellular localization Cell Membrane

Images



Western blot - Anti-TRA-1-60 (R) antibody [TRA-1-60] (ab16288)

All lanes : Anti-TRA-1-60 (R) antibody [TRA-1-60] (ab16288) at 10 µg/ml

Lane 1 : Human Embryonic Stem Cell Lysate
Lane 2 : Mouse Embryonic Stem Cell Lysate

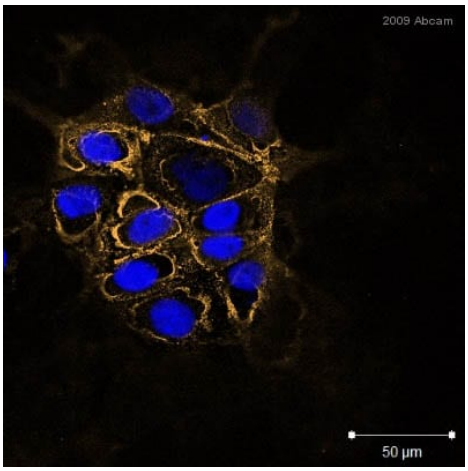
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat F(ab')2 Anti-Mouse IgM mu chain (HRP) (**ab5930**) at 1/5000 dilution

Predicted band size: 235 kDa
Observed band size: 250 kDa

As expected, ab16288 recognizes a band in Human Embryonic Stem Cell Lysate but not Mouse Embryonic Stem Cell Lysate. The

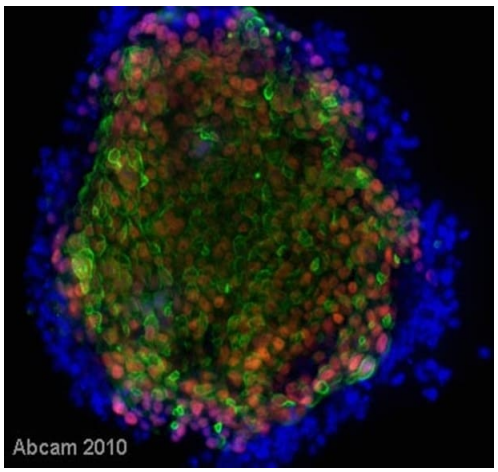
smear above the main band is due to protein glycosylation. The Western Blot profile is as expected for the TRA-1-60 monoclonal antibody.



Immunocytochemistry - Anti-TRA-1-60 (R) antibody [TRA-1-60] (ab16288)

This image is courtesy of an Abreview submitted by Ms Fiona Lewis

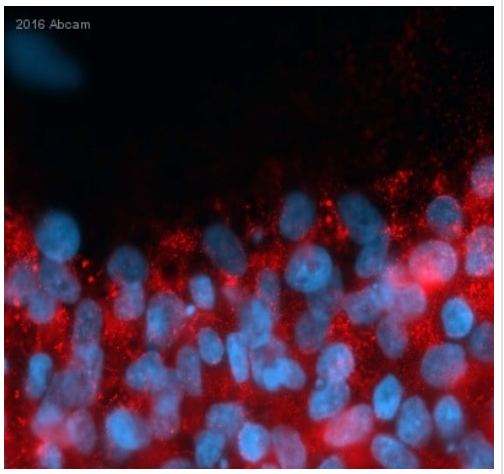
Immunocytochemical analysis of ab16288 staining TRA-160 (R) in HUES7 cells. Cells were fixed with paraformaldehyde, permeabilized with Triton and blocked in 10% serum for 1 hour at 24°C. Samples were incubated with primary antibody, dilution 1:500 (1% serum, 0.1% Triton in PBS), for 1 hour at 37°C. An Alexa Fluor® 647-conjugated goat polyclonal to mouse IgG, dilution 1:100, was used as secondary antibody.



Immunocytochemistry - Anti-TRA-1-60 (R) antibody [TRA-1-60] (ab16288)

This image is courtesy of an anonymous collaborator.

This image shows a colony of Human Embryonic Stem Cells stained with dapi (blue), anti-Oct4 antibody **ab19857** (red) and Tra-1-60 antibody ab16288 (green). The nuclei of Oct4-positive undifferentiated hESCs stained bright red, whereas Tra-1-60 staining was seen at the cell membrane. These antibodies can be used as markers of undifferentiated Human Embryonic Stem Cells.



Immunocytochemistry - Anti-TRA-1-60 (R) antibody [TRA-1-60] (ab16288)

This image is courtesy of an abreview submitted by Vladimir Milenkovic, University Hospital Regensburg, Germany

Immunocytochemistry analysis of human iPSC cells labeling TRA-1-60 (R) with ab16288 at 1:500 dilution. Cells were fixed with paraformaldehyde and permeabilized with 0.5% TX100. 5% serum was used to block cells for 20 minutes at 25°C. A polyclonal goat anti-mouse Cy3 secondary antibody was used at 1:500 dilution.

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