abcam

Product datasheet

Anti-Rex1 antibody ab28141

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Overview

Product name	Anti-Rex1 antibody
Description	Rabbit polyclonal to Rex1
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide corresponding to Mouse Rex1 aa 1-100 conjugated to keyhole limpet haemocyanin. (Peptide available as **ab28619**, **ab28620**)
Positive control	Lysate of 293T cells overexpressing Rex1, Mouse Embryonic Stem Cells expressing biotinylated Rex1.
General notes	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 Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab28141 in the following tested applications.

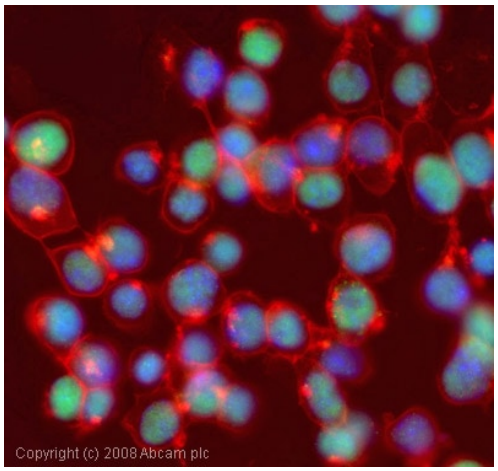
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★☆☆ (1)	Use a concentration of 0.5 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 32 kDa).
ICC/IF	★★★☆☆ (1)	Use a concentration of 1 µg/ml.

Target

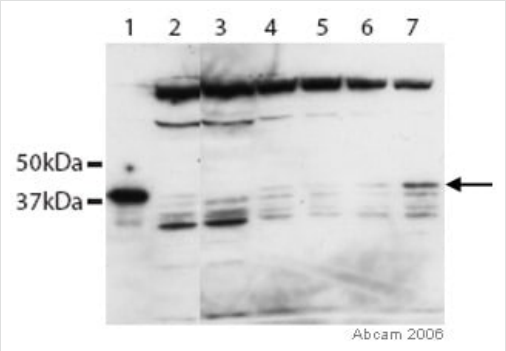
Function	Involved in self-renewal property of ES cells (By similarity). May be involved in transcriptional regulation.
Tissue specificity	Expressed in kidney, epidermal keratinocytes, prostate epithelial cells, bronchial and small airway lung epithelial cells (at protein level). Expressed in malignant kidney and several carcinoma cell lines (at protein level). Expressed in embryonic stem cells, kidney, epidermal keratinocytes, prostate epithelial cells, bronchial and small airway lung epithelial cells. Expressed in embryonal carcinomas, seminomas, malignant kidney and several carcinoma cell lines.
Sequence similarities	Belongs to the krueppel C2H2-type zinc-finger protein family. Contains 4 C2H2-type zinc fingers.
Cellular localization	Nucleus.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Rex1 antibody (ab28141)

ICC/IF image of ab28141 stained mouse embryonic stem cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab28141, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue).



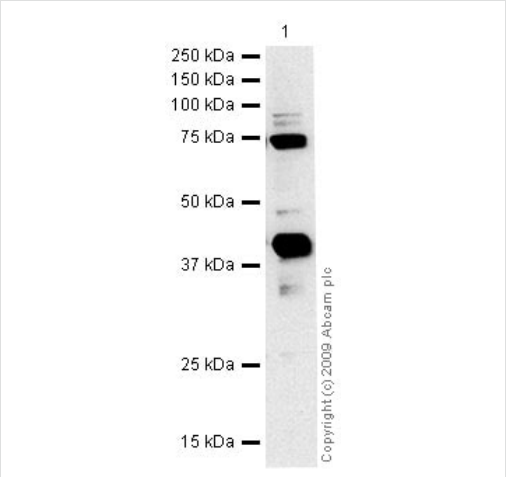
Western blot - Anti-Rex1 antibody (ab28141)

All lanes : Anti-Rex1 antibody (ab28141) at 0.5 µg/ml

Lane 1 : Lysate of 293T cells overexpressing Rex1
Lane 2 : Lysate of Mouse Embryonic Stem Cells expressing biotinylated Rex1
Lane 3 : Negative control for tagged protein - Lysate of Mouse Embryonic Stem Cells (endogenous protein present)
Lanes 4-7 : Lysate of various passages of Mouse Embryonic Stem Cells expressing biotinylated Rex1

Predicted band size: 32 kDa
Observed band size: 32 kDa
Additional bands at: 34 kDa (possible non-specific binding), 36 kDa (possible non-specific binding), 38 kDa (possible tagged protein)

In this western blot Anti-Rex1 antibody ab28141 recognizes a band at 32kDa corresponding to the endogenous Rex1 protein and a band at 38 kDa corresponding to biotinylated Rex1. The identities of the bands at 34 and 36 kDa are unknown. It is possible that they represent non-specific binding, but it may be that they represent modified forms of the non-biotinylated endogenous Rex1. The biotinylated Rex1 protein contains an N-terminal FLAG and a 25 AA peptide substrate for biotinylation. Therefore, the biotinylated protein is expected to migrate at a slightly higher molecular weight than endogenous Rex1. The large bands at the top of the image are likely to represent non-specific binding.



Western blot - Anti-Rex1 antibody (ab28141)

Anti-Rex1 antibody (ab28141) at 1 µg/ml + 293T Cells Overexpressing Mouse Rex1 at 10 µg

Secondary
Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 32 kDa
Observed band size: 40 kDa
Additional bands at: 100 kDa, 75 kDa. We are unsure as to the identity of these extra bands.

The REX1 protein in these 293T cells contains an N-terminal FLAG tag. We expect the tagged protein to migrate at a higher molecular weight than endogenous REX1.

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