abcam

Product datasheet

Anti-EHD2 antibody ab23935

1 Abreviews 26 References 5 Images

Overview

Product name	Anti-EHD2 antibody
Description	Goat polyclonal to EHD2
Host species	Goat
Specificity	This antibody is expected to recognise EHD1 protein as well as EHD2.
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Cow, Dog
Immunogen	Synthetic peptide corresponding to Human EHD2 aa 500-600 (C terminal). Database link: **Q9NZN4** Run BLAST with Run BLAST with
Positive control	WB: Human lung, colon and placenta tissue lysate; Flow Cyt (Intra): A431 cells. ICC: A431, A549 and HeLa cells
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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab23935 in the following tested applications.

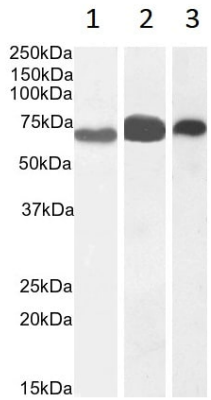
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.
ICC		Use a concentration of 10 µg/ml.
WB		Use a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 61 kDa). Primary incubation 1 hour at room temperature.

Target

Function	Plays a role in membrane reorganization in response to nucleotide hydrolysis. Binds to liposomes and deforms them into tubules. Plays a role in membrane trafficking between the plasma membrane and endosomes. Important for the internalization of GLUT4. Required for normal fusion of myoblasts to skeletal muscle myotubes. Binds ATP; does not bind GTP.
Tissue specificity	Highly expressed in heart and moderately expressed in placenta, lung, and skeletal muscle.
Sequence similarities	Contains 1 EF-hand domain. Contains 1 EH domain.
Domain	The EH domain interacts with Asn-Pro-Phe (NPF) motifs of target proteins.
Cellular localization	Cell membrane. Endosome membrane. Colocalizes with GLUT4 in intracellular tubulovesicular structures that are associated with cortical F-actin.

Images



Western blot - Anti-EHD2 antibody (ab23935)

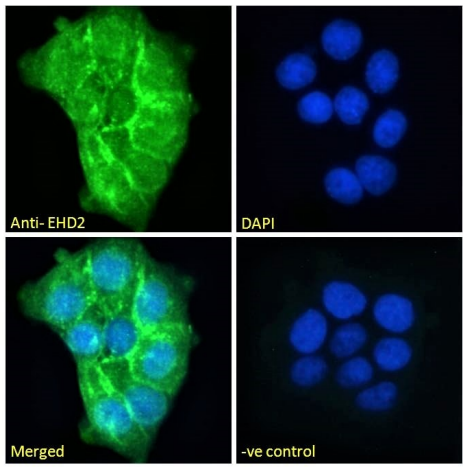
All lanes : Anti-EHD2 antibody (ab23935) at 0.1 µg/ml

Lane 1 : Human Lung tissue lysate
Lane 2 : Human colon tissue lysate
Lane 3 : Human placenta tissue lysate

Lysates/proteins at 35 µg per lane.

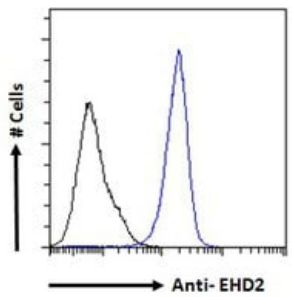
Predicted band size: 61 kDa

Lysate in RIPA buffer. Detected by chemiluminescence.



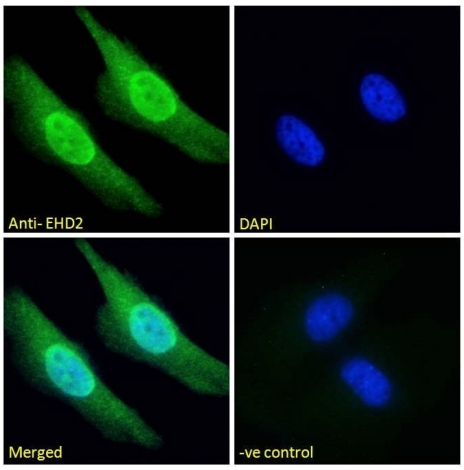
Immunocytochemistry - Anti-EHD2 antibody (ab23935)

Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation with ab23935 (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml), showing plasma membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml).



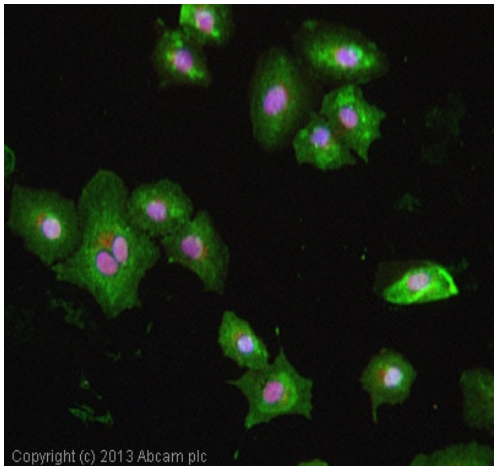
Flow Cytometry (Intracellular) - Anti-EHD2 antibody (ab23935)

Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation ab23935 (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (1 µg/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry - Anti-EHD2 antibody (ab23935)

Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml).



Immunocytochemistry - Anti-EHD2 antibody (ab23935)

ICC/IF image of ab23935 stained A549 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 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 (ab23935, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96931**, DyLight® 488 donkey anti-goat IgG (H+L) used at a 1/250 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) at a concentration of 1.43µM

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors