




## Product datasheet

### Anti-PLEKHM1 antibody ab204437

★★★★★ [2 Abreviews](#) [5 Images](#)

#### Overview

<b>Product name</b>	Anti-PLEKHM1 antibody
<b>Description</b>	Rabbit polyclonal to PLEKHM1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Recombinant fragment corresponding to Human PLEKHM1 aa 850-950. Database link: <a href="#">Q9Y4G2</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	IHC-P: Human Fallopian tube, cerebral cortex, small intestine, placenta tissue. ICC/IF: U-2 OS cells.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab204437 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
IHC-P		1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml.

## Target

### Function

Involved in vesicular transport in the osteoclast (By similarity). May have a role in sialyl-lex-mediated transduction of apoptotic signals.

### Tissue specificity

Expressed in placenta, liver, prostate, thymus, spleen, ovary, colon, colon carcinoma and peripheral blood lymphocytes (PBL). Weakly expressed in brain, lung, kidney, and testis. No expression in heart, skeletal muscle, pancreas and small intestine. Predominantly expressed in the breast carcinoma cell line MCF-7.

### Involvement in disease

Defects in PLEKHM1 are the cause of osteopetrosis autosomal recessive type 6 (OPTB6) [MIM:611497]; also known as autosomal recessive osteopetrosis intermediate form. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. Autosomal recessive osteopetrosis is usually associated with normal or elevated amount of non-functional osteoclasts.

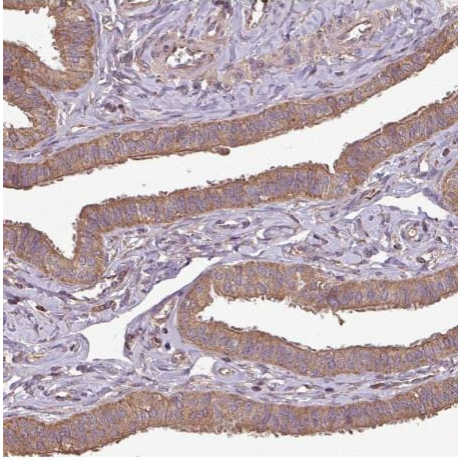
### Sequence similarities

Contains 2 PH domains.  
Contains 1 phorbol-ester/DAG-type zinc finger.  
Contains 1 RUN domain.

### Cellular localization

Cytoplasm.

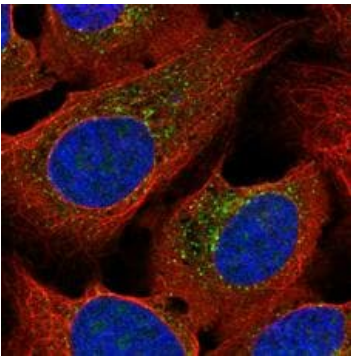
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLEKHM1 antibody (ab204437)

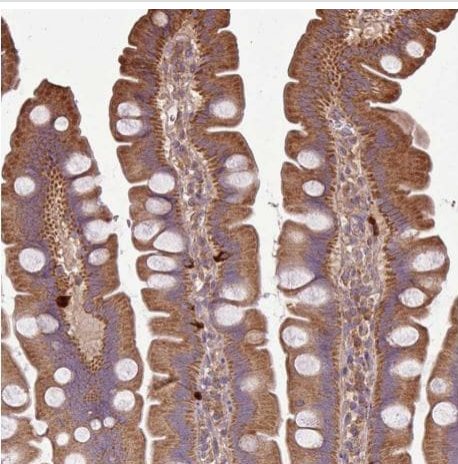
Paraffin embedded human Fallopian tube tissue stained for PLEKHM1 using ab204437 at 1/50 dilution in immunohistochemical analysis.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before the IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-PLEKHM1 antibody (ab204437)

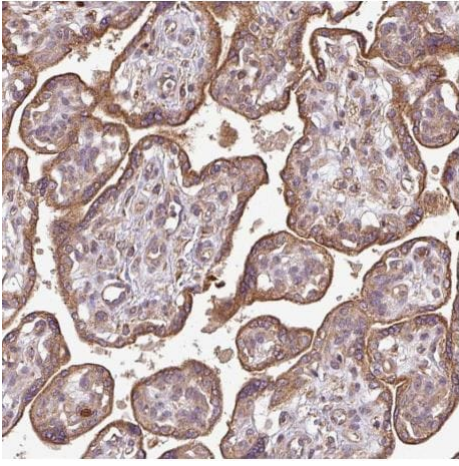
Immunofluorescent analysis of U-2 OS cells (PFA-fixed/Triton X-100 permeabilized) labeling PLEKHM1 with ab204437 at 2 µg/ml (green).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLEKHM1 antibody (ab204437)

Paraffin embedded human small intestine tissue stained for PLEKHM1 using ab204437 at 1/50 dilution in immunohistochemical analysis.

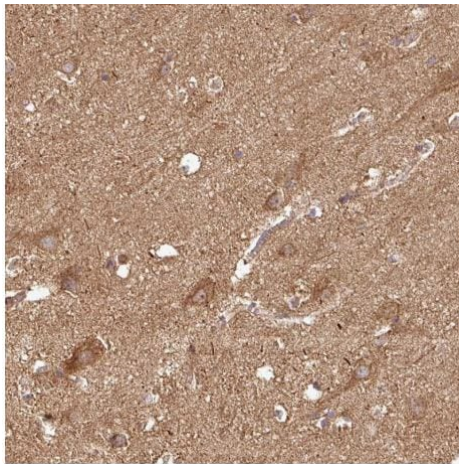
Heat mediated antigen retrieval was performed with citrate buffer pH 6 before the IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLEKHM1 antibody (ab204437)

Paraffin embedded human placenta tissue stained for PLEKHM1 using ab204437 at 1/50 dilution in immunohistochemical analysis.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before the IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLEKHM1 antibody (ab204437)

Paraffin embedded human cerebral cortex tissue stained for PLEKHM1 using ab204437 at 1/50 dilution in immunohistochemical analysis.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before the IHC staining protocol.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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