



Product datasheet

Anti-Podoplanin antibody ab10274

★★★★★ [1 Abreviews](#) [4 References](#) [1 Image](#)

Overview

Product name	Anti-Podoplanin antibody
Description	Rabbit polyclonal to Podoplanin
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment (His-tag) corresponding to Human Podoplanin aa 1-150. Database link: Q86YL7
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Positive control	WB: LEC whole cell lysate.
General notes	<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&As</p>

Properties

Form	Lyophilized: The lyophilized IgG is stable at 4°C for at least one month and for more than a year when kept at -20°C. When reconstituted in sterile water to a concentration of >0.5 mg/ml the antibody is stable for at least six months at 2-4°C in the presence of a preservative. Reconstituted antibody can also be aliquoted and stored at -20°C to -70°C for at least 1 year without detectable loss of activity. Avoid repeated freeze-thaw cycles.
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Constituent: PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab10274 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		Use at an assay dependent concentration. Predicted molecular weight: 16 kDa.

Target

Function

May be involved in cell migration and/or actin cytoskeleton organization. When expressed in keratinocytes, induces changes in cell morphology with transfected cells showing an elongated shape, numerous membrane protrusions, major reorganization of the actin cytoskeleton, increased motility and decreased cell adhesion. Required for normal lung cell proliferation and alveolus formation at birth. Induces platelet aggregation. Does not have any effect on folic acid or amino acid transport. Does not function as a water channel or as a regulator of aquaporin-type water channels.

Tissue specificity

Highly expressed in placenta, lung, skeletal muscle and brain. Weakly expressed in brain, kidney and liver. In placenta, expressed on the apical plasma membrane of endothelium. In lung, expressed in alveolar epithelium. Up-regulated in colorectal tumors and expressed in 25% of early oral squamous cell carcinomas.

Sequence similarities

Belongs to the podoplanin family.

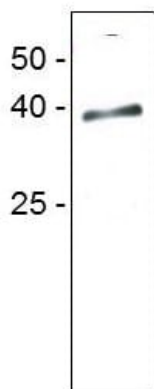
Post-translational modifications

Extensively O-glycosylated. Contains sialic acid residues. O-glycosylation is necessary for platelet aggregation activity.
The N-terminus is blocked.

Cellular localization

Membrane. Cell projection > filopodium membrane. Cell projection > lamellipodium membrane. Cell projection > microvillus membrane. Cell projection > ruffle membrane. Localized to actin-rich microvilli and plasma membrane projections such as filopodia, lamellipodia and ruffles.

Images



Western Blot analysis of Podoplanin expression in human lymphatic endothelial cells (LEC). The total lysate was subjected to SDS-PAGE and subsequent Western analysis with the polyclonal antibody ab10274.

Western blot - Rabbit polyclonal to Podoplanin (ab10274)

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