Product datasheet

Anti-Podoplanin / gp36 antibody [D2-40] ab77854

Overview

Product name: Anti-Podoplanin / gp36 antibody [D2-40]
Description: Mouse monoclonal [D2-40] to Podoplanin / gp36
Host species: Mouse
Specificity: Reacts with a O-linked sialoglycoprotein (MW 40kDa) found on lymphatic endothelium, fetal testis and on the surface of testicular germ cell tumors.
Tested applications: Suitable for: IHC-P, IHC-Fr
Species reactivity: Reacts with: Human
Immunogen: M2A
Positive control: Muscularis propria of human bowel

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.1% Sodium azide
Constituents: 1% BSA, PBS
Purification notes: Purified antibody
Clonality: Monoclonal
Clone number: D2-40
Isotype: IgG1

Applications

Our Abpromise guarantee covers the use of ab77854 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<td>IHC-P</td>
<td>1/40.</td>
<td>IHC concs given are for using Biotin based detection systems. No pretreatment required and incubation for 60 minutes at room temperature.</td>
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**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**

**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**

**Images**
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Podoplanin / gp36 antibody [D2-40] (ab77854)

ab77854, at a 1/40 dilution, staining human Podoplanin / gp36 in muscularis propria of bowel using Immunohistochemistry, Formalin/PFA-fixed paraffin-embedded tissue. Image shows lymphatic channels with staining of the endothelium. The adjacent small blood vessels show no staining of their endothelium.

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