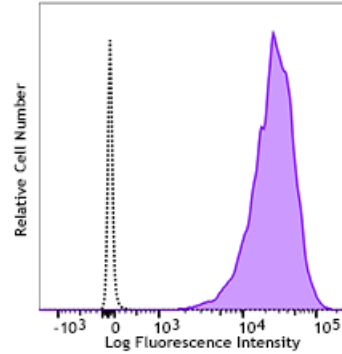


Alexa Fluor® 647 anti-human Podoplanin

Catalog # / 2575020 / 100 tests
Size: 2575015 / 25 tests
Clone: LpMab-21
Isotype: Mouse IgG2a, κ
Immunogen: Recombinant human podoplanin
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration: Lot-specific



Human LN319 cell line was stained with anti-human podoplanin (clone LpMab-21) Alexa Fluor® 647 (filled histogram) or mouse IgG2a, κ isotype control (clone MOPC-173) Alexa Fluor® 647 (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application

- References:**
1. Raica M, et al. 2008. *Anticancer Res.* 28:2997.
 2. Xie Q, et al. 2008. *Int. J. Clin. Exp. Pathol.* 1:276.
 3. Ogasawara S, et al. 2008. *Hybridoma.* 27:259.
 4. Kato Y, et al. 2003. *J. Biol. Chem.* 278:51599.

Description: Podoplanin is a 40-43 kD type-I transmembrane sialomucin-type glycoprotein, also known as T1a, gp36, gp38, gp40, and Aggrus. Originally detected on the surface of podocytes, further characterization showed podoplanin has a broad tissue distribution, including mesothelial cells, epithelial cells, follicular dendritic cells, and a variety of tumor cells. It has been reported that podoplanin is the ligand of CLEC2 and is involved in lymphatic vessel formation, platelet aggregation, and tumor metastasis. Podoplanin may serve as a useful marker for tumor diagnosis and prognosis.

**Antigen
References:**

1. Raica M, *et al.* 2008. *Anticancer Res.* 28:2997.
2. Xie Q, *et al.* 2008. *Int. J. Clin. Exp. Pathol.* 1:276.
3. Ogasawara S, *et al.* 2008. *Hybridoma.* 27:259.
4. Kato Y, *et al.* 2003. *J. Biol. Chem.* 278:51599.