SONY

Product Data Sheet

APC/Cyanine7 anti-human Podoplanin

Catalog # / Size: 2285150 / 100 tests
2285145 / 25 tests

Clone: NC-08

Isotype: Rat IgG2a, λ

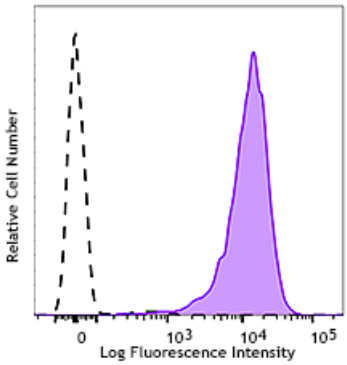
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cy7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: HCDM listed

Concentration: Lot-specific



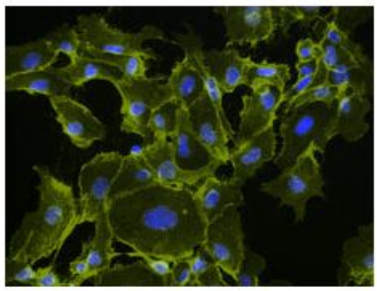
Human glioblastoma cell line LN319 was stained with podoplanin (clone NC-08) APC/Cy7 (filled histogram) or Rat IgG2a, λ APC/Cy7 isotype control (open histogram).

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 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunofluorescence[1].



HUVEC cells were fixed with 1% paraformaldehyde (PFA) and then stained with 10 µg/ml of purified CD144 (VE-Cadherin) (clone BV9) at 4°C overnight, followed by 2.5 µg/ml of Alexa Fluor® 555 anti-mouse IgG (yellow) for 2 hours at room temperature. Nuclei were counterstained with DAPI (blue). The image was captured by 20X objective.

Application References:

1. Fujino N, *et al.* 2012. *Am. J. Respir. Cell. Mol. Biol.* 46:422. (FC, IF)

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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, futher 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. Bio. Chem.* 278:51599.

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