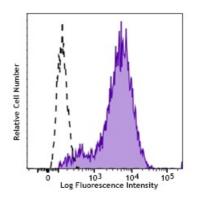
APC anti-human CD140a (PDGFRα)

Catalog # / Size:	2217555 / 25 tests 2217560 / 100 tests	
Clone:	16A1	
lsotype:	Mouse IgG1, κ	
lmmunogen:	NIH 3T3 cells transfected with human PDGFRalpha	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Hu NI CE
Concentration:	Lot-specific	hi



Human PDGFRα transfected NIH/3T3 cells were stained with CD140a (clone 16A1) APC (filled histogram) or mouse lgG1

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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application	1. Gronwald RG, et al. 1988. Proc. Natl. Acad. Sci. USA 85:3435.	
References:	2. Gilbertson DG, et al. 2001. J. Biol. Chem. 276:27406.	
	3. Seifert RA, et al. 1989. J. Biol. Chem. 264:8771.	
	4. Rupp E, et al. 1994. Eur. J. Biochem. 225:29.	

The 16A1 monoclonal antibody recognizes human CD140a also known as the Description: platelet-derived growth factor receptor, alpha polypeptide, PDGFR2, and PDGFRα. CD140a is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. The identity of the growth factor bound to the receptor determines whether the functional receptor is a homodimer or heterodimer composed of both PDGFR- α and - β . CD140a contains three immunoglobulin-like domains and a tyrosine kinase domain with a predicted molecular weight of approximately 123 kD. CD140a is widely expressed on a variety of mesenchymal-derived cells and has been implicated in the development of some tumors including basal cell carcinoma and gastric stromal cell tumors. Binding of A-chain containing PDGF molecules as well as protease-activated PDGF-C molecules can stimulate cell proliferation. CD140a has been shown to interact with a number of proteins including CRK, Grb2, Grb14, SHP2, and others as integrin β 3, caveolin-1, and nexin sorting molecules. The PDGFR α is heavily phosphorylated on numerous tyrosine residues through both autophosphorylation and ligand-dependent processes. The 16A1 antibody has been shown to be useful for flow cytometric detection of CD140a.

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Antigen	1. Gronwald RG, et al. 1988. Proc. Natl. Acad. Sci. USA 85:3435.
References:	2. Gilbertson DG, et al. 2001. J. Biol. Chem. 276:27406.
	3. Seifert RA, <i>et al.</i> 1989. <i>J. Biol. Chem.</i> 264:8771.

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