

CD140a (PDGFRA) Monoclonal Antibody (APA5), eBioscience™

Product Details	
Size	100 µg
Species	Mouse
Published Species	Artificial Control, Mouse, Human
Expression System	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	APA5
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_467491

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	35 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	4 Publications
Western Blot (WB)	Assay-Dependent	2 Publications
Immunocytochemistry (ICC)	-	2 Publications
Immunofluorescence (IF)	-	25 Publications
Immunohistochemistry (IHC)	-	19 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	3 Publications

Product Specific Information

Description: The APA5 monoclonal antibody reacts with the mouse CD140a molecule, the alpha chain of the platelet derived growth factor receptor (PDGF receptor). PDGFRA is a receptor tyrosine kinase that forms dimers on the surface upon ligand binding and phosphorylates substrates. Dimers of PDGFR consist of either homodimers of alpha/alpha, beta/beta, or heterodimers of alpha/beta and serve as a substrate for its kinase activity. CD140a is expressed by embryonic tissues and mesenchymal-derived cells of the adult mouse tissues.

Applications Reported: The APA5 antibody has been reported for use in flow cytometric analysis, immunoblotting (WB), and immunohistochemical staining of frozen tissue sections. It has also been reported in blocking of ligand binding. (Please use Functional Grade purified APA5 in functional assays.)

Applications Tested: This APA5 antibody has been tested by flow cytometric analysis of the NIH/3T3 cell line. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of

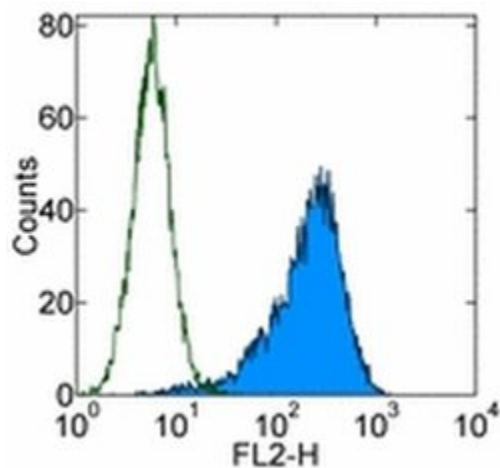
100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD140a (PDGFRA) Monoclonal Antibody (APA5), eBioscience™



CD140a (PDGFRA) Antibody (14-1401-82) in Flow

Staining of NIH/3T3 cells with 0.5 μ g of Rat IgG2a K Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.5 μ g of Anti-Mouse CD140a (PDGF Receptor α) Purified (filled histogram) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Flow Cytometry (35)

PLoS pathogens

PDGFRA defines the mesenchymal stem cell Kaposi's sarcoma progenitors by enabling KSHV oncogenesis in an angiogenic environment.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 14-1401-82) in Flow Cytometry"

Authors: Naipauer J,Rosario S,Gupta S,Premer C,Méndez-Solís O,Schlesinger M,Ponzinibbio V,Jain V,Gay L,Renne R, Chan HL,Morey L,Salyakina D,Abba M,Williams S,Hare JM,Goldschmidt-Clermont PJ,Mesri EA

Species
Artificial Control

Dilution
Not Cited

Year
2019

Nature communications

SCL/TAL1 cooperates with Polycomb RYBP-PRC1 to suppress alternative lineages in blood-fated cells.

"Published figure using CD140a (PDGFRA) monoclonal antibody (Product # 14-1401-82) in Flow Cytometry"

Authors: Chagraoui H,Kristiansen MS,Ruiz JP,Serra-Barros A,Richter J,Hall-Ponselé E,Gray N,Waithe D,Clark K, Hublitz P,Repapi E,Otto G,Sopp P,Taylor S,Thongjuea S,Vyas P,Porcher C

Species
Artificial Control

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

Immunohistochemistry (19)

Nature communications

A novel mouse model demonstrates that oncogenic melanocyte stem cells engender melanoma resembling human disease.

"14-1401 was used in Immunohistochemistry-immunofluorescence to provide experimental validation of the human melanoma progression model and key insights into the transformation and heterogeneity of McSC-derived melanoma."

Authors: Sun Q, Lee W, Mohri Y, Takeo M, Lim CH, Xu X, Myung P, Atit RP, Taketo MM, Moubarak RS, Schober M, Osman I, Gay DL, Saur D, Nishimura EK, Ito M

Species
Mouse

Dilution
1:100

Year
2019

Journal of the American Society of Nephrology : JASN

Expression Profiling of Fibroblasts in Chronic and Acute Disease Models Reveals Novel Pathways in Kidney Fibrosis.

"14-1401 was used in Immunohistochemistry to investigate whether activated fibroblasts demonstrate changes in gene expression that correspond with regression after acute injury but are not observed in chronic models of fibrosis."

Authors: Higashi AY, Aronow BJ, Dressler GR

Species
Mouse

Dilution
Not Cited

Year
2019

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

ICC (2) IF (25) IHC (F) (4) IHC (P) (3) WB (2)

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