

ARG43854 anti-CD140a / PDGFRA antibody [16A1] (PE-Cyanine 7)

Package: 100 tests Store at: 4°C

Summary

Tested ApplicationFACSHostMouseClonalityMonoclonalClone16A1IsotypeIgG1 kappaTarget NameCD140a / PDGFRASpeciesHuman CD140a / PDGFRA fusion protein.ImmunogenPE-Cyanine 7Alternate NamesDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFRA; Platelet-Derived Growth Factor Receptor Alpha; PDGFRA; Specier Alpha; PDGFRA; Platelet-Derived Growth Factor Receptor Alpha; Platelet-Derived Growth Factor Receptor A	Product Description	PE-Cyanine 7-conjugated Mouse Monoclonal antibody human CD140a / PDGFRA
HostMouseClonalityMonoclonalClone16A1IsotypeIgG1 kappaTarget NameCD140a / PDGFRASpeciesHuman CD140a / PDGFRA fusion protein.ImmunogenPE-Cyanine 7Alternate NamesDGFRA, Platelet Derived Growth Factor Receptor Alpha; Platelet-Derived Gro	Tested Reactivity	Hu
ClonalityMonoclonalClone16A1IsotypeIgG1 kappaTarget NameCD140a / PDGFRASpeciesHumanImmunogenHuman CD140a / PDGFRA fusion protein.ConjugationPE-Cyanine 7Alternate NamesPDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFR2; Platelet-Derived Growth Factor Receptor; Pla	Tested Application	FACS
Clone16A1IsotypeIgG1 kappaTarget NameCD140a / PDGFRASpeciesHumanImmunogenHuman CD140a / PDGFRA fusion protein.ConjugationPE-Cyanine 7Alternate NamesPDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFR2; Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor 2; CD140a Antigen-Like Famme	Host	Mouse
IsotypeIgG1 kappaTarget NameCD140a / PDGFRASpeciesHumanImmunogenHuman CD140a / PDGFRA fusion protein.ConjugationPE-Cyanine 7Alternate NamesPDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFR2; Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor 2; CD140 Antigen-Like Fam Member A; CD140a Antigen; PDGF-R-Alpha; EC 2.7.10.1; PDGFR-2; CD140a; GAS9; Alpha Platelet-	Clonality	Monoclonal
Target NameCD140a / PDGFRASpeciesHumanImmunogenHuman CD140a / PDGFRA fusion protein.ConjugationPE-Cyanine 7Alternate NamesPDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFR2; Platelet-Derived Growth Factor Receptor; Platel	Clone	16A1
SpeciesHumanImmunogenHuman CD140a / PDGFRA fusion protein.ConjugationPE-Cyanine 7Alternate NamesPDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFR2; Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor 2; CD140 Antigen-Like Fammer A; CD140a Antigen; PDGFR-A; PloFR-2; CD140a; GAS9; Alpha Platelet-Derived Growth Factor Receptor; Platelet-Derive	Isotype	lgG1 kappa
ImmunogenHuman CD140a / PDGFRA fusion protein.ConjugationPE-Cyanine 7Alternate NamesPDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFR2; Platelet-Derived Growth Factor Receptor, Alpha Polypeptide; Alpha-Type Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor 2; CD140 Antigen-Like Fam Member A; CD140a Antigen; PDGFR-R-Alpha; EC 2.7.10.1; PDGFR-2; CD140a; GAS9; Alpha Platelet-	Target Name	CD140a / PDGFRA
Conjugation PE-Cyanine 7 Alternate Names PDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFR2; Platelet-Derived Growth Factor Receptor, Alpha Polypeptide; Alpha-Type Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor 2; CD140 Antigen-Like Fam Member A; CD140a Antigen; PDGFR-Alpha; EC 2.7.10.1; PDGFR-2; CD140a; GAS9; Alpha Platelet-	Species	Human
Alternate Names PDGFRA; Platelet Derived Growth Factor Receptor Alpha; PDGFR2; Platelet-Derived Growth Factor Receptor, Alpha Polypeptide; Alpha-Type Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor 2; CD140 Antigen-Like Fam Member A; CD140a Antigen; PDGFR-Alpha; EC 2.7.10.1; PDGFR-2; CD140a; GAS9; Alpha Platelet-	Immunogen	Human CD140a / PDGFRA fusion protein.
Receptor, Alpha Polypeptide; Alpha-Type Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor Alpha; Platelet-Derived Growth Factor Receptor 2; CD140 Antigen-Like Fam Member A; CD140a Antigen; PDGF-R-Alpha; EC 2.7.10.1; PDGFR-2; CD140a; GAS9; Alpha Platelet-	Conjugation	PE-Cyanine 7
RHEPDGFRA; EC 2.7.10; CD140A	Alternate Names	Receptor, Alpha Polypeptide; Alpha-Type Platelet-Derived Growth Factor Receptor; Platelet-Derived Growth Factor Receptor Alpha; Platelet-Derived Growth Factor Receptor 2; CD140 Antigen-Like Family Member A; CD140a Antigen; PDGF-R-Alpha; EC 2.7.10.1; PDGFR-2; CD140a; GAS9; Alpha Platelet- Derived Growth Factor Receptor; Platelet-Derived Growth Factor Alpha Receptor; PDGFR-Alpha;

Application Instructions

Application table	Application	Dilution
	FACS	4 μl / 10^6 cells
Application Note	* The dilutions indicate recomm should be determined by the sci	ended starting dilutions and the optimal dilutions or concentrations ientist.

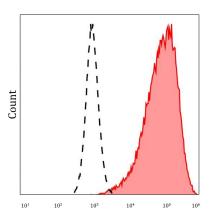
Properties

Form	Liquid
Purification	Protein-A affinity chromatography
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Storage instruction	Aliquot and store in the dark at 4°C. Keep protected from prolonged exposure to light. Do not freeze. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol	PDGFRA
Gene Full Name	Platelet Derived Growth Factor Receptor Alpha
Background	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers.
Function	Tyrosine-protein kinase that acts as a cell-surface receptor for PDGFA, PDGFB and PDGFC and plays an essential role in the regulation of embryonic development, cell proliferation, survival and chemotaxis. Depending on the context, promotes or inhibits cell proliferation and cell migration. Plays an important role in the differentiation of bone marrow-derived mesenchymal stem cells. Required for normal skeleton development and cephalic closure during embryonic development. Required for normal development of the mucosa lining the gastrointestinal tract, and for recruitment of mesenchymal cells and normal development of intestinal villi. Plays a role in cell migration and chemotaxis in wound healing. Plays a role in platelet activation, secretion of agonists from platelet granules, and in thrombin-induced platelet aggregation. Binding of its cognate ligands - homodimeric PDGFA, homodimeric PDGFB, heterodimers formed by PDGFA and PDGFR on the nature of the bound ligand and is modulated by the formation of heterodimers between PDGFRA and PDGFRB. Phosphorylates PIK3R1, PLCG1, and PTPN11. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate, mobilization of cytosolic Ca2+ and the activation of protein kinases C. Phosphorylates PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and thereby mediates activation of the AKT1 signaling pathway. Mediates activation of HRAS and of the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. Promotes activation of STAT family members STAT1, STAT3 and STAT5A and/or STAT5B. Receptor signaling is down-regulated by protein phosphatases that dephosphorylate the receptor and its down-stream effectors, and by rapid internalization of the activated receptor.
Calculated Mw	123 kDa
РТМ	Disulfide bond, Glycoprotein, Phosphoprotein, Ubl conjugation
Cellular Localization	Cell membrane, Cell projection, Golgi apparatus, Membrane

Images



ARG43854 anti-CD140a / PDGFRA antibody [16A1] (PE-Cyanine 7) FACS image

Flow Cytometry: Human whole blood stained with ARG43854 anti-CD140a / PDGFRA antibody [16A1] (PE-Cyanine 7) at 4 $\mu g.$