

ARG58244 anti-CD140a / PDGFRA phospho (Tyr1018) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CD140a / PDGFRA phospho (Tyr1018)
Tested Reactivity	Hu
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CD140a / PDGFRA
Antigen Species	Human
Immunogen	Phospho specific peptide corresponding to residues surrounding Tyr1018 of Human PDGFRA
Conjugation	Un-conjugated
Alternate Names	Platelet-derived growth factor receptor alpha; PDGFR2; Alpha-type platelet-derived growth factor receptor; RHEPDGFRA; PDGFR-2; Platelet-derived growth factor receptor 2; CD140A; Platelet-derived growth factor alpha receptor; CD140 antigen-like family member A; CD antigen CD140a; PDGF-R-alpha; Alpha platelet-derived growth factor receptor; CD140a antigen; EC 2.7.10.1; PDGFR-alpha

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recomm should be determined by the sci	nended starting dilutions and the optimal dilutions or concentrations ientist.
Positive Control	HepG2 + EGF	
Calculated Mw	123 kDa	
Observed Size	200 kDa	

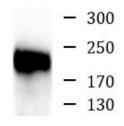
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. 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 polypeptide
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. [provided by RefSeq, Mar 2012]
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 PDGFB or homodimeric PDGFC -leads to the activation of several signaling cascades; the response depends on the nature of the bound ligand and is modulated by the formation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate, mobilization of cytosolic Ca(2+) and the activation of protein kinase C. Phosphorylates PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and thereby mediates activation of the AKT1 signaling pathway. Mediates 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. [UniProt]
Cellular Localization	Cell membrane, Single-pass type I membrane protein. [UniProt]

Images



ARG58244 anti-CD140a / PDGFRA phospho (Tyr1018) antibody WB image

Western blot: 25 μg of HepG2 cells treated by EGF (100 ng/ml) for 30 min after serum-starvation overnight. The blot was stained with ARG58244 anti-CD140a / PDGFRA phospho (Tyr1018) antibody at 1:1000 dilution.

HepG2 + EGF