

PLA2R antibody

Mouse monoclonal antibody

Catalog # AD80010

Product Information

Application	IHC-P
Primary Accession	Q13018
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	168600

Additional Information

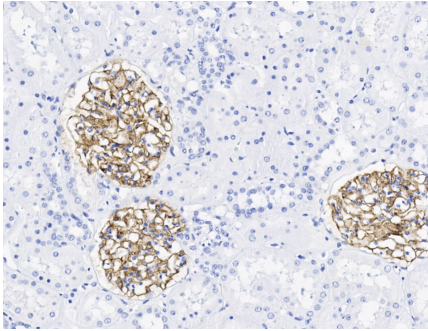
Gene ID	22925
Dilution	IHC-P~~Ready-to-use
Storage	Maintain refrigerated at 2-8°C.

Protein Information

Name	PLA2R1
Synonyms	CLEC13C
Function	Receptor for secretory phospholipase A2 (sPLA2). Acts as a receptor for phospholipase sPLA2-IB/PLA2G1B but not sPLA2-IIA/PLA2G2A. Also able to bind to snake PA2-like toxins. Although its precise function remains unclear, binding of sPLA2 to its receptor participates in both positive and negative regulation of sPLA2 functions as well as clearance of sPLA2. Binding of sPLA2-IB/PLA2G1B induces various effects depending on the cell type, such as activation of the mitogen-activated protein kinase (MAPK) cascade to induce cell proliferation, the production of lipid mediators, selective release of arachidonic acid in bone marrow-derived mast cells. In neutrophils, binding of sPLA2- IB/PLA2G1B can activate p38 MAPK to stimulate elastase release and cell adhesion. May be involved in responses in pro-inflammatory cytokine productions during endotoxic shock. Also has endocytic properties and rapidly internalizes sPLA2 ligands, which is particularly important for the clearance of extracellular sPLA2s to protect their potent enzymatic activities. The soluble secretory phospholipase A2 receptor form is circulating and acts as a negative regulator of sPLA2 functions by blocking the biological functions of sPLA2-IB/PLA2G1B (PubMed:15611272, PubMed:7721806). In podocytes, binding of sPLA2-IB/PLA2G1B can regulate podocyte survival and glomerular homeostasis (PubMed:25335547).
Cellular Location	Cell membrane; Single-pass type I membrane protein [Isoform 2]: Secreted.
Tissue Location	Expressed in podocytes (at protein level) (PubMed: 25335547). Present in lung macrophage (at protein level) Highly expressed in kidney. Also expressed in

pancreas, amnion, choriodecidua and placenta. Isoform 2 is expressed at much lower level

Images



Immunohistochemical analysis of paraffin-embedded human kidney tissue using AD80010 performed on the Abcarta® FAIP-48 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6. 0). Samples were incubated with primary antibody(Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems(Abcepta:ADR005) was used as the secondary antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.