abcam

ab211490

Anti-PLA2R antibody [12-6-5]

Anti-PLA2R antibody [12-6-5] (ab211490) is a mouse monoclonal antibody detecting PLA2R in **Western Blot, Flow Cytometry, IHC-P, ICC/IF**. Suitable for **Human**.

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human PLA2R1 aa 1 to C-terminus. The exact immunogen used to generate this antibody is proprietary information. Database link Q13018
Clone number	12-6-5
Purification technique	Affinity purification Protein G
Dissociation constant	5.4 x 10^{-10} M
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	1/200
Notes	-

WB

Tested

Species	Human
Dilution info	1/5000 - 1/10000
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/5000 - 1/20000
Notes	Perform heat mediated antigen retrieval at pH 8 before commencing with IHC staining protocol. See attached document for protocol details.

ICC/IF

Tested

Species	Human
Dilution info	1/400
Notes	-

Target data

See full target information PLA2R1

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).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-PLA2R antibody [12-6-5] (ab211490) is a mouse monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P), Immunocytochemistry/immunofluorescence (ICC/IF) in Human samples.

What is the molecular weight of PLA2R?
Anti-PLA2R [12-6-5] (ab211490) specifically detects a band for PLA2R (UniProt: Q13018) at a molecular weight of 169kDa.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

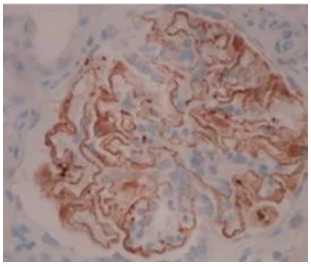
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

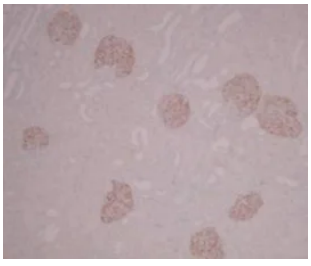
5 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLA2R antibody [12-6-5] (ab211490)

PLA2R Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-PLA2R antibody

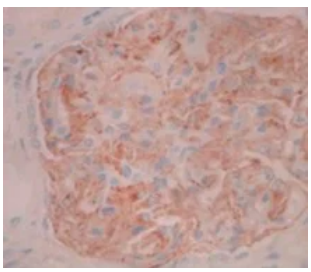
Immunohistochemical analysis of membranous nephropathy kidney tissue labeling PLA2R at 1/5000 dilution followed by DAB detection.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLA2R antibody [12-6-5] (ab211490)

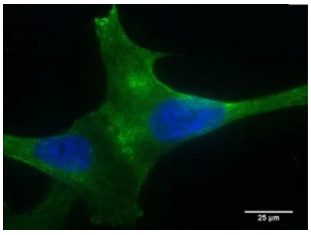
PLA2R Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-PLA2R antibody

Immunohistochemical analysis of normal human kidney tissue labeling PLA2R at 1/5000 dilution followed by DAB detection.



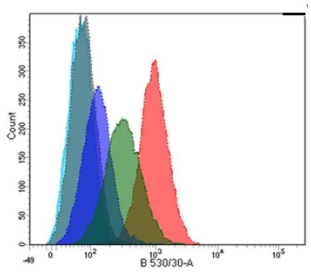
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PLA2R antibody [12-6-5] (ab211490)

Immunohistochemical analysis of normal human kidney tissue labeling PLA2R at 1/5000 dilution followed by DAB detection.



Immunocytochemistry/ Immunofluorescence - Anti-PLA2R antibody [12-6-5] (ab211490)

Immunofluorescent analysis of PLA2R over-expressing podocytes labeling PLA2R at 1/400 dilution (green).



Flow Cytometry - Anti-PLA2R antibody [12-6-5] (ab211490)

Flow cytometry analysis of wild type (dark blue line) and over-expressing PLA2R podocytes (low expressor, green line; high expressor, red line) labeling PLA2R using ab211490 at 1/200 dilution. Negative controls were unlabelled cells (turquoise line) and mouse IgG (grey line).

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