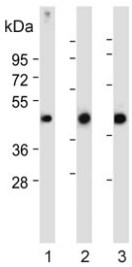
LPAR6 Antibody / Lysophosphatidic Acid Receptor 6 Antibody (F54656)

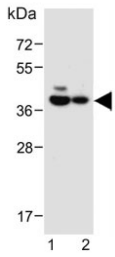
Catalog No.	Formulation	Size
F54656-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54656-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

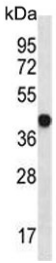
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P43657
Applications	Immunohistochemistry (FFPE): 1:25 Western blot: 1:500-1:2000
Limitations	This LPAR6 Antibody / Lysophosphatidic Acid Receptor 6 Antibody is available for research use only.



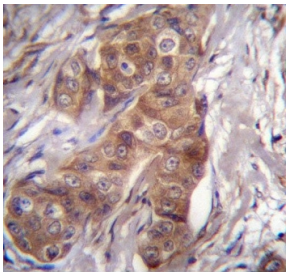
P2RY5 Antibody Human and Mouse WB. Western blot testing of P2RY5 Antibody using lysates from 1) human MOLT4 cells, 2) human HepG2 cells, and 3) mouse heart tissue. A distinct band is detected at approximately 39 kDa in each sample, consistent with the predicted molecular weight of LPAR6/P2RY5. These results demonstrate that P2RY5 Antibody, a Lysophosphatidic Acid Receptor Antibody, specifically recognizes endogenous receptor expression in both human cell lines and mouse tissue, supporting its utility for cross-species protein detection.



P2RY5 Antibody Mouse and Rat Heart WB. Western blot testing of P2RY5 Antibody using 1) mouse heart and 2) rat heart tissue lysates. A distinct band is detected at approximately 39 kDa in both samples, consistent with the predicted molecular weight of LPAR6/P2RY5. These results demonstrate that P2RY5 Antibody, a Lysophosphatidic Acid Receptor Antibody, specifically detects endogenous receptor expression in rodent cardiac tissue and supports cross-species applications.



P2RY5 Antibody Mouse Heart WB. Western blot testing of P2RY5 Antibody using mouse heart tissue lysate. A single, distinct band is detected at approximately 39 kDa, consistent with the predicted molecular weight of LPAR6/P2RY5. These results demonstrate that P2RY5 Antibody, a Lysophosphatidic Acid Receptor Antibody, specifically detects endogenous receptor expression in mouse cardiac tissue, supporting its use for studies of GPCR and lipid signaling in rodent models.



P2RY5 Antibody Human Breast Carcinoma IHC. Immunohistochemical staining of FFPE human breast carcinoma tissue using P2RY5 Antibody. Heat-induced epitope retrieval was performed by steaming tissue sections in pH 6.0 citrate buffer for 20 minutes followed by cooling prior to incubation with the primary antibody. Detection was achieved using an HRP-conjugated secondary antibody with DAB chromogen. Moderate membranous and cytoplasmic staining is observed in the carcinoma cells, consistent with endogenous LPAR6/P2RY5 expression. These results demonstrate that P2RY5 Antibody, a Lysophosphatidic Acid Receptor Antibody, specifically detects receptor expression in FFPE human breast carcinoma tissue.

Description

LPAR6 Antibody recognizes lysophosphatidic acid receptor 6, a G protein-coupled receptor encoded by the LPAR6 gene and historically identified as P2RY5. LPAR6 belongs to the lysophosphatidic acid receptor family, which mediates cellular responses to the bioactive lipid lysophosphatidic acid. Unlike classical purinergic receptors, LPAR6 is now recognized as a dedicated lysophosphatidic acid receptor with important functions in epithelial biology, hair follicle development, and intracellular signaling. Expression has been reported in hair follicles, skin, and a variety of epithelial and other normal tissues, while altered expression has also been investigated in several cancers and developmental disorders.

Activation of LPAR6 initiates signaling through heterotrimeric G proteins, regulating pathways that influence cytoskeletal remodeling, cell adhesion, proliferation, migration, and differentiation. The receptor is best known for its essential role in maintaining normal hair shaft formation through signaling initiated by lysophosphatidic acid species generated by the enzyme autotaxin. Loss-of-function mutations in LPAR6 disrupt these signaling pathways and are a well-established cause of inherited woolly hair and autosomal recessive hypotrichosis. Beyond hair biology, LPAR6 signaling has attracted growing interest for its contributions to epithelial homeostasis, wound repair, and regulation of tissue architecture. As a result, LPAR6 Antibody has become a valuable research tool for investigating receptor localization, expression patterns, and signaling mechanisms in both developmental and disease models.

Recent studies have also highlighted potential roles for LPAR6 in tumor biology. Depending on cellular context, LPAR6 signaling has been associated with regulation of tumor cell proliferation, migration, invasion, and interactions with the surrounding microenvironment. Expression has been examined in cancers including hepatocellular carcinoma, breast cancer, colorectal cancer, melanoma, and additional epithelial malignancies, although its precise biological functions appear to vary between tumor types. These findings have increased interest in the receptor as both a biomarker candidate and a potential therapeutic target. Researchers commonly use LPAR6 Antibody in applications including Western blotting, immunohistochemistry, immunofluorescence, flow cytometry, and other protein expression studies to evaluate receptor distribution across normal and diseased tissues. Because LPAR6 is a membrane-associated GPCR, validated antibodies are especially important for obtaining reliable and reproducible experimental results.

NSJ Bioreagents provides LPAR6 Antibody products that undergo validation for research applications to support consistent detection of this clinically relevant receptor. Whether investigating hair follicle biology, lipid-mediated GPCR signaling, epithelial differentiation, developmental disorders, or cancer-associated pathways, a high-quality Lysophosphatidic Acid Receptor 6 Antibody enables accurate characterization of protein expression and localization. As research continues to expand our understanding of lipid signaling networks and GPCR biology, LPAR6 Antibody remains

an important reagent for studies focused on receptor function, downstream signaling pathways, and disease mechanisms.

For additional antibodies recognizing this receptor under its historical P2RY5 designation, visit our P2RY5 Antibody / Lysophosphatidic Acid Receptor Antibody page, featuring validated antibodies for GPCR and lipid signaling research.

Application Notes

The stated application concentrations are suggested starting points. Titration of the LPAR6 Antibody / Lysophosphatidic Acid Receptor 6 Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 106-134 from the human protein was used as the immunogen for the LPAR6 antibody.

Storage

Aliquot the LPAR6 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

LPAR6 antibody, P2RY5 antibody, Purinergic Receptor P2Y5 antibody, Lysophosphatidic Acid Receptor 6 antibody, GPR87B antibody, Hair Growth Receptor antibody

Copyright © NSJ Bioreagents. All rights reserved.