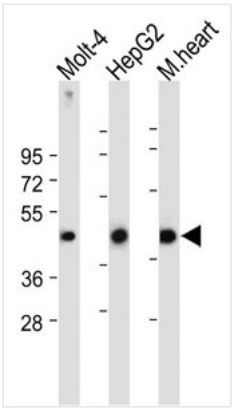
LPAR6 Antibody – Rabbit Polyclonal

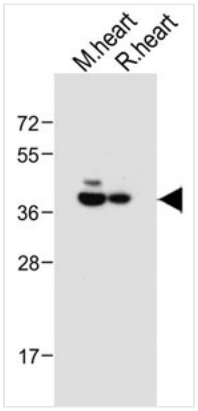
PRODUCT OVERVIEW

Product Name	LPAR6, Polyclonal Antibody
Full Product Name	LPAR6 Antibody (Center)
Product Gene Name	anti-LPAR6 antibody
Product Synonym Names	Lysophosphatidic acid receptor 6; LPA receptor 6; LPA-6; Oleoyl-L-alpha-lysophosphatidic acid receptor; P2Y purinoceptor 5; P2Y5; Purinergic receptor 5; RB intron encoded G-protein coupled receptor; LPAR6; P2RY5
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat Predicted: Rat
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Specificity	This LPAR6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 106-134 amino acids from the Central region of human LPAR6.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	LPAR6 peptide (MBS9219339) is used for blocking the activity of LPAR6 antibody (MBS9212496)
Immunogen Sequence Positions	106-134
OMIM	278150
3D Structure	ModBase 3D Structure for P43657
Function	Binds to oleoyl-L-alpha-lysophosphatidic acid (LPA). Intracellular cAMP is involved in the receptor activation. Important for the maintenance of hair growth and texture.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed ubiquitously, including in skin and hair follicle cells. Detected in both Henle's and Huxley's layers of the inner root sheath of the hair follicle and in suprabasal layers of the epidermis (at protein level). Expressed at low levels in peripheral blood leukocytes.
Product Categories/Family for anti-LPAR6 antibody	Signal Transduction; GPCR Antibodies
Applications Tested/Suitable for anti-LPAR6 antibody	Western Blot (WB), Immunohistochemistry (IHC) - Paraffin, ELISA (EIA)
Application Notes for anti-LPAR6 antibody	IHC-P~~1:10~50 WB~~1:2000 E~~Use at an assay dependent concentration
Related Product Information for anti-LPAR6 antibody	The protein encoded by this gene belongs to the family of G-protein coupled receptors, that are preferentially activated by adenosine and uridine nucleotides. This gene aligns with an internal intron of the retinoblastoma susceptibility gene in the reverse orientation. Alternative splicing results in multiple transcript variants.

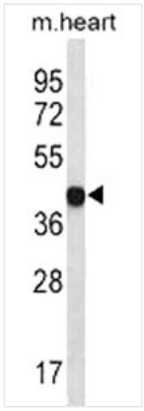
Product References and Citations for anti-LPAR6 antibody	Pasternack, S.M., et al. Arch. Dermatol. Res. 301(8):621-624(2009) Yanagida, K., et al. J. Biol. Chem. 284(26):17731-17741(2009) Tariq, M., et al. Br. J. Dermatol. 160(5):1006-1010(2009) Shimomura, Y., et al. J. Invest. Dermatol. 129(3):622-628(2009) Dereure, O. Ann Dermatol Venereol 135(11):794-795(2008)
Other Notes	Small volumes of anti-LPAR6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LPAR6 purchase	MBS9212496 is an antibody targeting LPAR6. Also known as LPAR6 Antibody (Center). Reactive in Human, Mouse, Rat Predicted: Rat. Host: Rabbit.



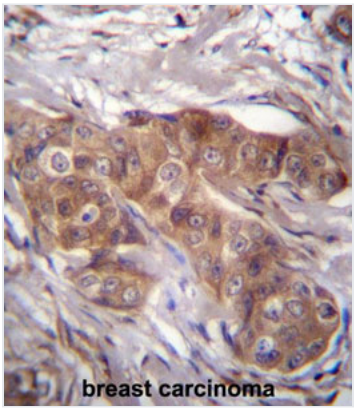
Western Blot (WB) of anti-LPAR6 antibody
All lanes : Anti-LPAR6 Antibody (Center) at 1:2000 dilution Lane 1: Molt-4 whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: Mouse heart tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDaBlocking/Dilution buffer: 5% NFDM/TBST.



Western Blot (WB) of anti-LPAR6 antibody
All lanes : Anti-LPAR6 Antibody (Center) at 1:1000 dilution Lane 1: Mouse heart tissue lysate Lane 2: Rat heart tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western Blot (WB) of anti-LPAR6 antibody
LPAR6 Antibody (Center) (MBS9212496) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the LPAR6 antibody detected the LPAR6 protein (arrow).



Immunohostochemistry (IHC) of anti-LPAR6 antibody
LPAR6 Antibdy (Center) (MBS9212496) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of LPAR6 Antibdy (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LPAR6. It may not necessarily be applicable to this product.

NCBI GI #	241982706
NCBI GeneID	10161
NCBI Accession #	NP_001155969.1
NCBI Related Accession #	NP_001155970.1; NP_005758.2

UniProt Primary Accession #	P43657
UniProt Secondary Accession #	O15133; Q3KPF5; Q53FA0; Q5VW44; Q7Z3S0; Q7Z3S6; A4FTW9; B3KVF2; F2YGU4
UniProt Related Accession #	P43657
GenBank Nucleotide #	NM_001162497.1
NCBI Official Full Name	lysophosphatidic acid receptor 6
NCBI Official Synonym Full Names	lysophosphatidic acid receptor 6
NCBI Official Symbol	LPAR6
NCBI Official Synonym Symbols	LAH3; P2Y5; ARWH1; HYPT8; P2RY5
UniProt Protein Name	Lysophosphatidic acid receptor 6
UniProt Synonym Protein Names	Oleoyl-L-alpha-lysophosphatidic acid receptor; P2Y purinoceptor 5; P2Y5; Purinergic receptor 5; RB intron encoded G-protein coupled receptor
Protein Family	Lysophosphatidic acid receptor
UniProt Gene Name	LPAR6
UniProt Synonym Gene Names	P2RY5; LPA receptor 6; LPA-6; P2Y5
UniProt Entry Name	LPAR6_HUMAN
NCBI Protein Information	lysophosphatidic acid receptor 6
UniProt Comments for LPAR6	P2RY5: Binds to oleoyl-L-alpha-lysophosphatidic acid (LPA). Intracellular cAMP is involved in the receptor activation. Important for the maintenance of hair growth and texture. Defects in LPAR6 are the cause of woolly hair autosomal recessive type 1 with or without hypotrichosis (ARWH1). A hair shaft disorder characterized by fine and tightly curled hair. Compared to normal curly hair that is observed in some populations, woolly hair grows slowly and stops growing after a few inches. Under light microscopy, woolly hair shows some structural anomalies, including trichorrhexis nodosa and tapered ends. Defects in LPAR6 are the cause of hypotrichosis type 8 (HYPT8). A condition characterized by the presence of less than the normal amount of hair. Affected individuals show progressive hair loss, thinning of scalp hair since early childhood, sparse body hair, and sparse eyebrows and eyelashes in some cases. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Membrane protein, multi-pass; Receptor, GPCR; Membrane protein, integral Chromosomal Location of Human Ortholog: 13q14 Cellular Component: plasma membrane; integral to membrane Molecular Function: G-protein coupled receptor activity Biological Process: G-protein coupled receptor protein signaling pathway Disease: Hypotrichosis 8
Research Articles on LPAR6	**1.** Missense mutations in LPAR6 reveal abnormal phospholipid signaling pathways leading to hypotrichosis.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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