OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CF503737

EDG2 (LPAR1) Mouse Monoclonal Antibody [Clone ID: OTI1G6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G6
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human LPAR1(NP_001392) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	40.9 kDa
Gene Name:	lysophosphatidic acid receptor 1
Database Link:	NP_001392 Entrez Gene 14745 MouseEntrez Gene 116744 RatEntrez Gene 1902 Human Q92633

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Background: The integral membrane protein encoded by this gene is a lysophosphatidic acid (LPA) receptor from a group known as EDG receptors. These receptors are members of the G protein-coupled receptor superfamily. Utilized by LPA for cell signaling, EDG receptors mediate diverse biologic functions, including proliferation, platelet aggregation, smooth muscle contraction, inhibition of neuroblastoma cell differentiation, chemotaxis, and tumor cell invasion. Two transcript variants encoding the same protein have been identified for this gene [provided by RefSeq, Jul

Synonyms: edg-2; EDG2; Gpcr26; LPA1; Mrec1.3; rec.1.3; vzg-1; VZG1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Gap junction, Neuroactive ligand-receptor interaction

Product images:

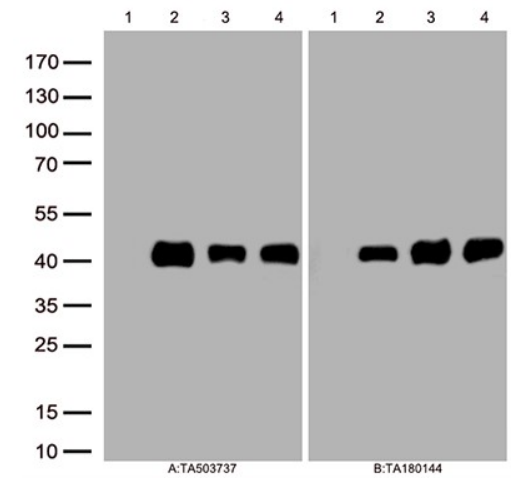
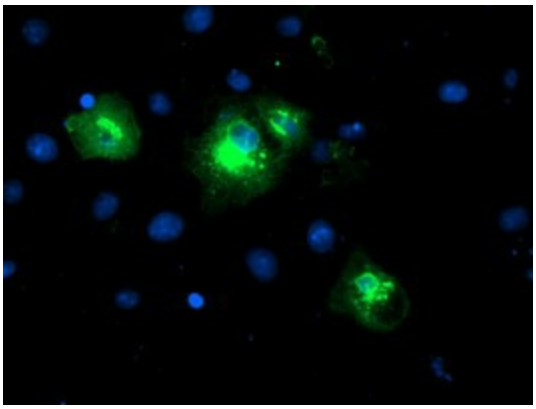
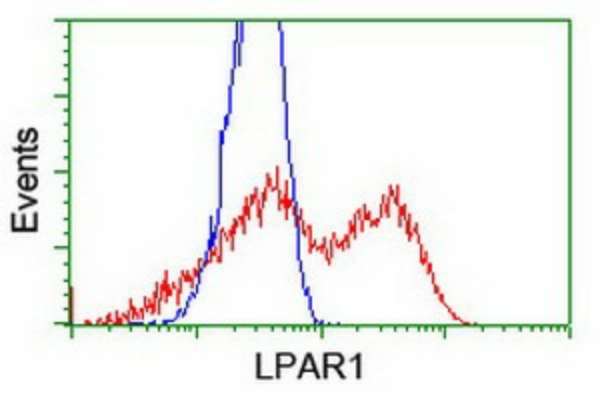


Figure A, Western blot analysis of overexpressed lysates(25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], lane 1) , human LPAR1 plasmid ([RC206065], lane 2), mouse LPAR1 plasmid ([MR205601], lane 3), rat LPAR1 plasmid ([RR210163], lane 4) using anti-LPAR1 antibody [TA503737] (1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



Anti-LPAR1 mouse monoclonal antibody ([TA503737]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY LPAR1 ([RC206065]).



HEK293T cells transfected with either [RC206065] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-LPAR1 antibody ([TA503737]), and then analyzed by flow cytometry.