

Biotinylated Human LPAR1 Nanodisc

Cat. No. LAR-HM10NB

Description

Source	Recombinant Biotinylated Human LPAR1 Nanodisc is expressed from HEK293 with His tag at the C-terminus. It contains Met1-Val364.
Accession	Q92633-1
Molecular Weight	The protein has a predicted MW of 54.10 kDa.
Endotoxin	Less than 1 EU per µg by the LAL method.

Formulation and Storage

Formulation	Supplied as 0.22 µm filtered solution in PBS, 200mM L-arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

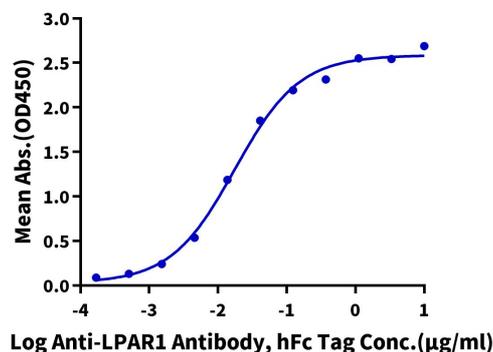
Lysophosphatidic acid receptor 1 (LPA1) belongs to the G protein-coupled receptor family. The ligand for LPA1 is LPA, the simplest lysophospholipid. The mature form of LPA1 is glycosylated and localized on the plasma membrane. LPA1 is bound to heterotrimeric G proteins and transduces intracellular signaling in response to ligation to LPA. Desensitization of LPA1 negatively regulates LPA1-mediated signaling and the resulting biological functions.

Assay Data

ELISA Data

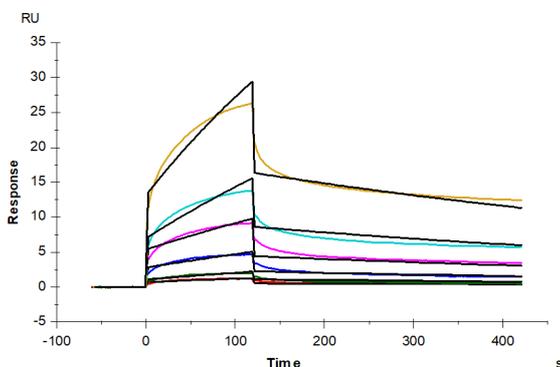
Biotinylated Human LPAR1 Nanodisc, His Tag ELISA

0.5µg Biotinylated Human LPAR1 Nanodisc, His Tag Per Well



Immobilized Biotinylated Human LPAR1 Nanodisc, His Tag at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-LPAR1 Antibody, hFc Tag with the EC50 of 17.6ng/ml determined by ELISA.

SPR Data



Biotinylated Human LPAR1 Nanodisc, His Tag captured on CM5 Chip via Streptavidin can bind Anti-LPAR1 Antibody, hFc Tag with an affinity constant of 0.13 µM as determined in SPR assay (Biacore T200).