Mouse PEDFR/PNPLA2 Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 615728

Catalog Number: FAB5365G

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects PEDF R/PNPLA2 in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG_{2A} Clone # 615728
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse PEDF R/PNPLA2 Val162-Gly253 Accession # Q8BJ56
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PEDF R (Pigment epithelium derived factor receptor; also known as ATGL, PNPLA2, and Desnutrin) is a 55 kDa member of the PNPLA family of proteins. It is expressed in adipocytes, hepatocytes, skeletal muscle, and pigment epithelium. PEDF R specifically hydrolyses triglycerides, releasing long-chain fatty acids. Mouse PEDF R is described as being a 486 amino acid (aa) type II transmembrane (TM) protein. Its TM segment is stated to span aa 9-29. Alternatively, it may have a hydrophobic lipid-association domain between aa 267-295. It contains a palatin domain (aa 10-179) with a conserved GxSxG enzymatic motif. There are multiple splice forms. Two show alternate start sites at Met57 and Met232, while two others show a deletion of aa 163-196 and aa 253-308, respectively. Over aa 162-253, mouse PEDF R shares 98% and 93% aa sequence identity with rat and human PEDF R, respectively.

PRODUCT SPECIFIC NOTICES

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