Human Adiponutrin/PNPLA3 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 847516

Catalog Number: FAB5208R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Adiponutrin/PNPLA3 in direct ELISA.
Source	Monoclonal Mouse IgG_{2B} Clone # 847516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Adiponutrin/PNPLA3 Arg160-Arg349 Accession # Q9NST1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.*

Immunohistochemistry	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

Human Adiponutrin (ADPN; also PNPLA3 and patatin-like phospholipase domain-containing protein 3) is a 53 kDa member of the PNPLA family of phospholipase A2 enzymes. It is expressed in white adipocytes. Adiponutrin is elevated in response to insulin and appears to act not as a phospholipase, but a molecule involved in anabolic pathways. ADPN is likely to be a type II transmembrane protein that is 481 amino acids (aa) in length. It contains one patatin domain (aa 10-179) that is associated with *in vitro* enzyme activity and a transmembrane segment between aa 42-62. There appear to be two splice variants. One shows a four aa deletion of aa 59-62 and a second shows an alternate start site at Met379. Over aa 160-349, human ADPN shares 61% aa identity with mouse Adiponutrin.

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