

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	<i>E. coli</i> -derived recombinant mouse PEDF R/PNPLA2 Val162-Gly253 Accession # Q8BJ56
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.

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

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.