

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PEDF R/PNPLA2 in direct ELISAs. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse PNPLA2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PEDF R/PNPLA2 Val162-Thr332 Accession # Q96AD5
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.

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

PEDF R (Pigment epithelium derived factor receptor; also ATGL, PNPLA2 and desnutrin) is a 55-60 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. Human PEDF R is described as being a 504 amino acid (aa) type II transmembrane (TM) protein. Its TM segment is stated to span aa 9-29. It also contains a palatin domain (aa 10-179) with a conserved GxSxG enzymatic motif. There is one potential isoform variant that shows a deletion of aa 2-62. Over aa 162-332, human PEDF R shares 85% aa identity with mouse PEDF R.

PRODUCT SPECIFIC NOTICES

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