

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PEDF R/PNPLA2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse PEDF R is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 494702
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PEDF R/PNPLA2 Val162-Thr332 Accession # Q96AD5
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Y-79 human retinoblastoma cell line

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

PEDF R (pigment epithelium-derived factor receptor) is also called ATGL (adipose triglyceride lipase), TTS2 (transport-secretion protein 2), iPLA2ζ (calcium-independent phospholipase A2 zeta) or desnutrin. It is a 54 kDa transmembrane protein that is member 2 of the patatin-like phospholipase domain-containing protein family (gene name PNPLA2). PEDF is highly expressed in adipose tissue, where it catalyzes formation of diacylglycerol from triglyceride. It has also been found in the retina (as a receptor for PEDF), testis, cardiac and skeletal muscle. Human PEDF R shares 85% amino acid (aa) identity with mouse and rat PEDF R within aa 162-332, the region used as an immunogen.

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