

DESCRIPTION

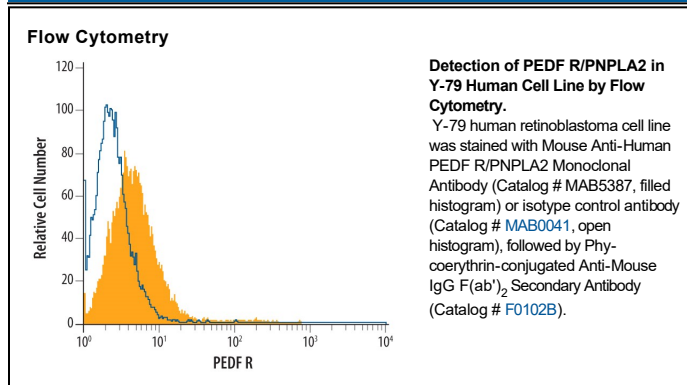
Species Reactivity	Human
Specificity	Detects human PEDF R/PNPLA2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse PEDF R is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 494702
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PEDF R/PNPLA2 Val162-Thr332 Accession # Q96AD5
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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
Western Blot	1 µg/mL	Recombinant Human PEDF R/PNPLA2
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.