

DESCRIPTION

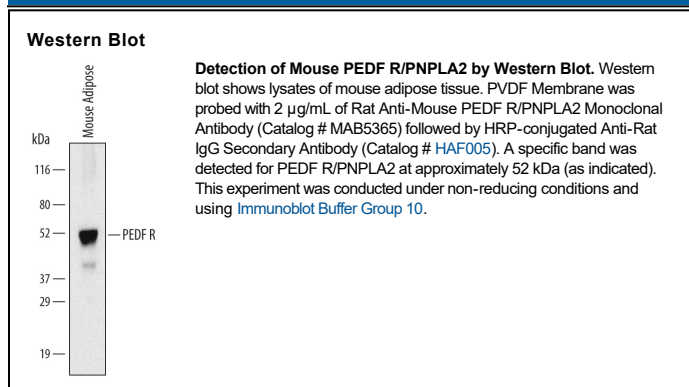
Species Reactivity	Mouse
Specificity	Detects PEDF R/PNPLA2 in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 615728
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse PEDF R/PNPLA2 Val162-Gly253 Accession # Q8BJ56
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	2 µg/mL	See Below

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; 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.