

DESCRIPTION

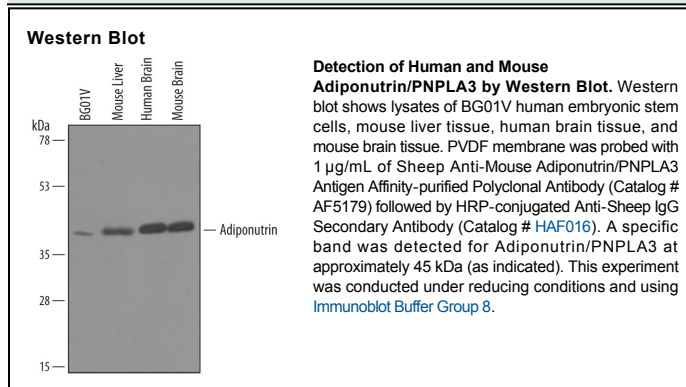
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Adiponutrin/PNPLA3 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Adiponutrin/PNPLA3 Arg160-Arg327 Accession # Q91WW7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

Mouse adiponutrin (also patatin-like phospholipase domain-containing protein 3) is a 45-48 kDa member of the adiponutrin family of phospholipase A2 enzymes. It is expressed in white and brown adipocytes, hepatocytes and brain. Adiponutrin is reduced in amount during fasting, and appears to act as an acute sensor of the body energy stores. Based on other family members, mouse adiponutrin is a type II transmembrane protein that is 413 amino acids (aa) in length. It contains one patatin domain (aa 10-179) that is associated with enzyme activity. There appear to be three splice variants. One shows a 69 aa substitution for aa 384-413, a second shows a deletion of aa 385-413, while a third shows a three aa substitution for aa 384-413. Over aa 160-327, mouse adiponutrin shares 84% and 62% aa identity with rat and human adiponutrin, respectively; and over aa 161-229, mouse adiponutrin shares 90% aa identity with human adiponutrin.