

# **Human Adiponutrin/PNPLA3 Antibody**

Monoclonal Mouse IgG2B Clone #847516

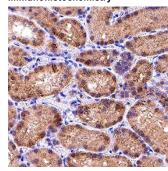
Catalog Number: MAB5208

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Adiponutrin/PNPLA3 in direct ELISA.	
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 847516	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human Adiponutrin/PNPLA3 Arg160-Arg349 Accession # Q9NST1	
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.	

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
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of Human Kidney

### Immunohistochemistry



Detection of Adiponutrin/PNPLA3 in Human Kidney. Adiponutrin/PNPLA3 was detected in immersion fixed paraffin-embedded sections of Human Kidney using Mouse Anti-Human Adiponutrin/PNPLA3 Monoclonal Antibody (Catalog # MAB5208) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in epitehelial cells in convoluted tubules. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents

## 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.

- 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

Human Adiponutrin (ADPN; also PNPLA3 and patatin-like phospholipase domain-containing protein 3) is a 53 kDa member of the PNPLA family of phospholipase A2 enzymes. It is expressed in white adipocytes. Adiponutrin is elevated in response to insulin and appears to act not as a phospholipase, but a molecule involved in anabolic pathways. ADPN is likely to be a type II transmembrane protein that is 481 amino acids (aa) in length. It contains one patatin domain (aa 10-179) that is associated with in vitro enzyme activity and a transmembrane segment between aa 42-62. There appear to be two splice variants. One shows a four aa deletion of aa 59-62 and a second shows an alternate start site at Met379. Over aa 160-349, human ADPN shares 61% aa identity with mouse Adiponutrin

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