

Datasheet for ABIN361184

anti-PNPLA3 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	PNPLA3
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This PNPLA3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Pnpla3 / Adiponutrin (mouse)
Immunogen:	Peptide with sequence EHDICPKVKSTN, from the internal region of the protein sequence according to NP_473429.2.
Sequence:	EHDICPKVKS TN
Isotype:	IgG
Specificity:	This antibody is raised against a peptide derived from the Mouse protein sequence and this peptide differs from Human only in position 2.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Product Details

Grade: Verified

Target Details

Target: PNPLA3

Alternative Name: Pnpla3 ([PNPLA3 Products](#))

Background: Pnpla3, patatin-like phospholipase domain containing 3, Adpn, adiponutrin

Molecular Weight: 42.6kDa

Gene ID: 80339, 116939, 362972

NCBI Accession: [NP_473429](#)

Application Details

Application Notes: Immunohistochemistry: Paraffin embedded Human Kidney. Recommended concentration: 8 µg/mL.

Western Blot: Approx 45 kDa band observed in Mouse Adrenal Gland lysates, and also in preliminary testing of Mouse and Human Kidney and Rat Adrenal Gland lysate (calculated MW of 42.6Da according to Mouse NP_473429.2). Recommended concentration: 0.01-0.03

Peptide ELISA: antibody detection limit dilution 1:16000.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 mg/mL

Buffer: Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Minimize freezing and thawing.

Storage: -20 °C

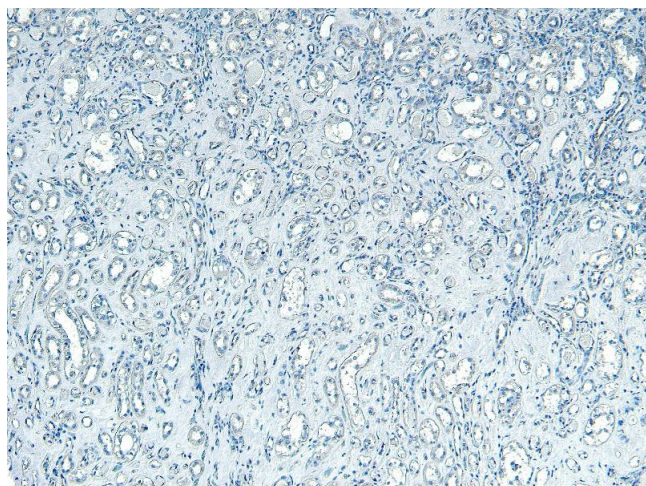
Storage Comment: Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated

at 4°C for a few weeks and still remain viable.

Publications

- Product cited in:
- Yang, Mottillo, Mladenovic-Lucas, Zhou, Granneman: "Dynamic interactions of ABHD5 with PNPLA3 regulate triacylglycerol metabolism in brown adipocytes." in: **Nature metabolism**, Vol. 1, Issue 5, pp. 560-569, (2019) ([PubMed](#)).
- Hao, Ito, Huang, Sae-tan, Lambert, Ross: "Shifts in dietary carbohydrate-lipid exposure regulate expression of the non-alcoholic fatty liver disease-associated gene PNPLA3/adiponutrin in mouse liver and HepG2 human liver cells." in: **Metabolism: clinical and experimental**, Vol. 63, Issue 10, pp. 1352-62, (2014) ([PubMed](#)).
- Kumari, Schoiswohl, Chitraju, Paar, Cornaciu, Rangrez, Wongsiriroj, Nagy, Ivanova, Scott, Knittelfelder, Rechberger, Birner-Gruenberger, Eder, Brown, Haemmerle, Oberer, Lass, Kershaw, Zimmermann et al.: "Adiponutrin functions as a nutritionally regulated lysophosphatidic acid acyltransferase. ..." in: **Cell metabolism**, Vol. 15, Issue 5, pp. 691-702, (2012) ([PubMed](#)).
- Gustavsson, Soga, Wahlström, Vesterlund, Azimi, Norstedt, Tollet-Egnell: "Sex-dependent hepatic transcripts and metabolites in the development of glucose intolerance and insulin resistance in Zucker diabetic fatty rats." in: **Journal of molecular endocrinology**, Vol. 47, Issue 2, pp. 129-43, (2011) ([PubMed](#)).

Images



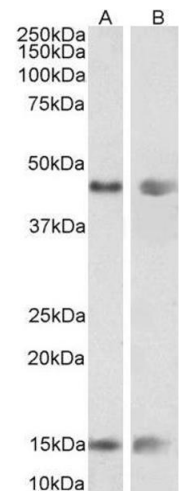
Immunohistochemistry

Image 1. ABIN361184 Negative Control showing staining of paraffin embedded Human Kidney, with no primary antibody.



Western Blotting

Image 2. Antibody (0.05µg/ml) staining of Mouse Heart lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Western Blotting

Image 3. Antibody (0.01µg/ml) staining of Mouse (A) and Rat (B) Adrenal gland lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN361184.