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diagnostic or therapeutic use.**

EB08402 - Goat Anti-Pnpla3 / Adiponutrin (mouse) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

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

Official Symbol: Pnpla3

Accession Number(s): NP_473429.2

Human GeneID(s): [80339](#)

Non-Human GeneID(s): 116939 (mouse), 362972 (rat)

Important Comments: This antibody is raised against a peptide derived from the Mouse protein sequence and this peptide differs from Human only in position 2.

Immunogen

Peptide with sequence EHDICPKVKSTN, from the internal region of the protein sequence according to NP_473429.2.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:16000.

Western blot: Approx 45kDa 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: 0.01-0.03µg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Kidney. Recommended concentration: 8µg/ml.

Species Reactivity

Tested: Human, Mouse

Expected from sequence similarity: Human, Mouse, Rat

Specific References

This antibody (previous batch) has been successfully used in WB on Mouse:

Ryuta Sugihara, Manabu Taneike, Tomokazu Murakawa, Takahito Tamai, Hiromichi Ueda, Rika Kitazume-Taneike, Takafumi Oka, Yasuhiro Akazawa, Hiroki Nishida, Kentaro Mine, Ayana Hioki, Jumpei Omi, Shigemiki Omiya, Junken Aoki, Kazutaka Ikeda, Kazuhiko Nishida, Makoto Arita, Osamu Yamaguchi, Yasushi Sakata, Kinya Otsu
Lysophosphatidylserine induces necrosis in pressure overloaded male mouse hearts via G protein coupled receptor 34
Nat Commun. 2023 Jul 31;14(1):4494.
PMID: 37524709

This antibody (previous batch) has been successfully used in Western blot on Rat:

Mendez-Garcia C, Trini A, Browne V, Kochansky CJ, Pontiggia L, D'mello AP
Decreased liver triglyceride content in adult rats exposed to protein restriction during gestation and lactation: Roles of hepatic lipogenesis and lipid utilization in muscle and

adipose tissue

Can J Physiol Pharmacol. 2019 Oct;97(10):952-962

PMID: 31238009

This antibody (previous batch) has been successfully used in Western blot on Mouse:

Kumari M, Schoiswohl G, Chitraju C, Paar M, Cornaciu I, Rangrez AY, Wongsirirot N, Nagy HM, Ivanova PT, Scott SA, Knittelfelder O, Rechberger GN, Birner-Gruenberger R, Eder S, Brown HA, Haemmerle G, Oberer M, Lass A, Kershaw EE, Zimmermann R, Zechner R.

Adiponutrin functions as a nutritionally regulated lysophosphatidic acid acyltransferase. Cell Metab. 2012 May 2;15(5):691-702.

PMID: 22560221

This antibody (previous batch) has been successfully used in Western blot on Rat:

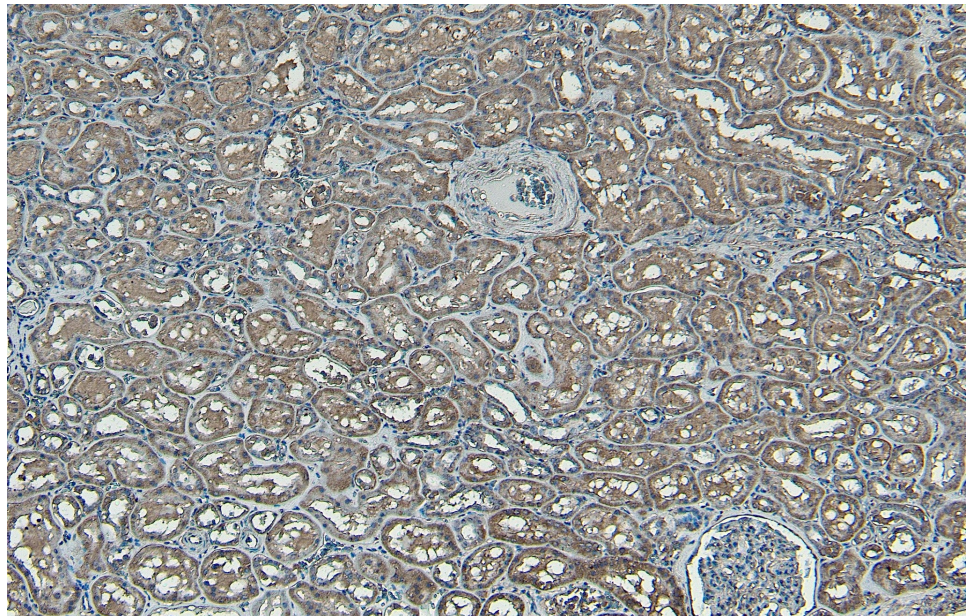
Gustavsson C, Soga T, Wahlström E, Vesterlund M, Azimi A, Norstedt G, Tollet-Egnell P. Sex-dependent hepatic transcripts and metabolites in the development of glucose intolerance and insulin resistance in Zucker diabetic fatty rats.

J Mol Endocrinol. 2011 Aug 25;47(2):129-43.

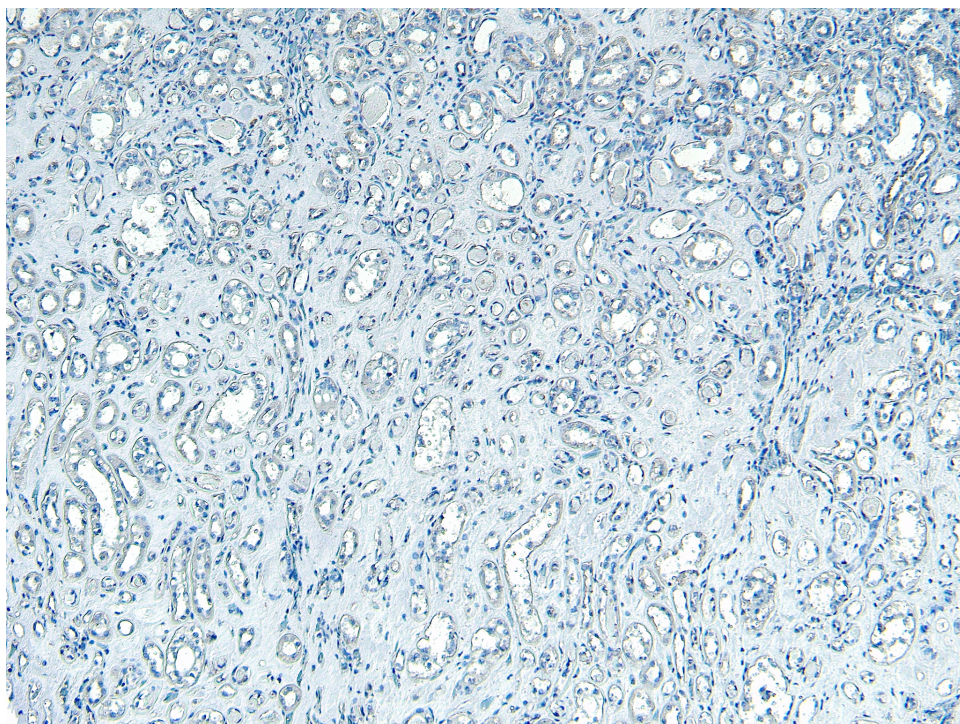
PMID: 21673048



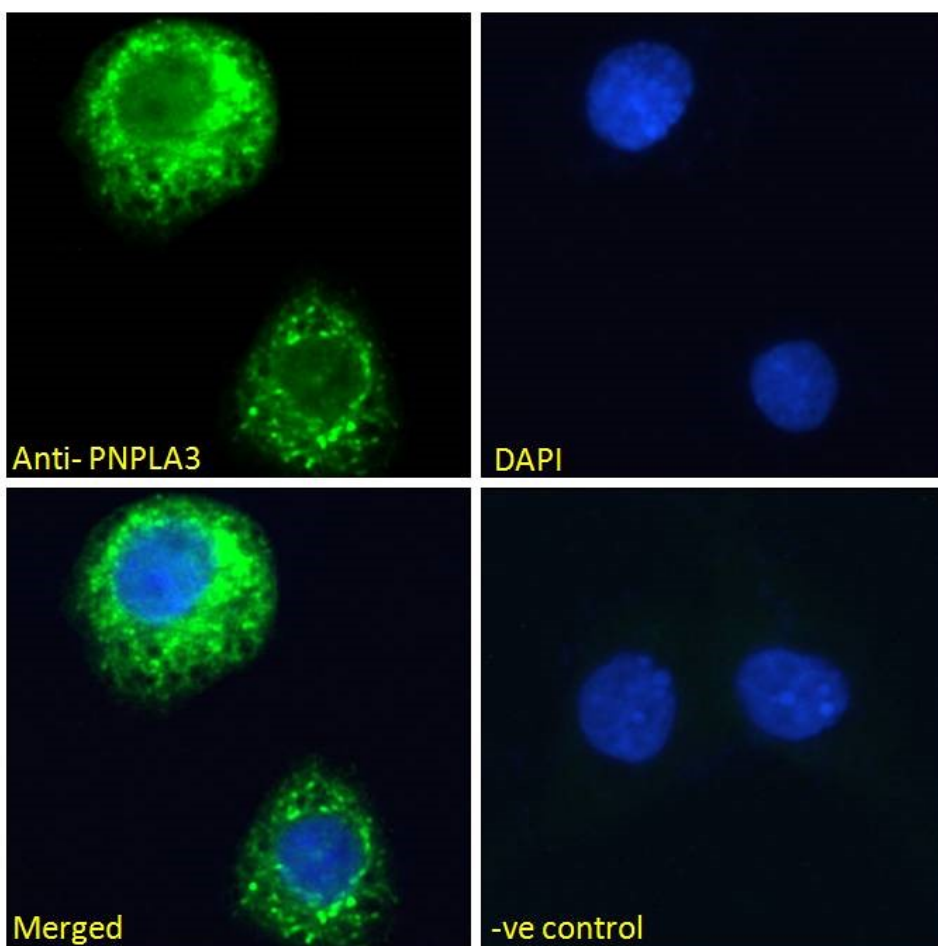
EB08402 (0.03 μ g/ml) staining of Mouse Adrenal Gland lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



EB08402 (8 μ g/ml) staining of paraffin embedded Human Kidney. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB08402 Negative Control showing staining of paraffin embedded Human Kidney, with no primary antibody.



EB08402 Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Mitochondrial staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml). **This data is from a previous batch, not on sale.**