

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB08402 - Goat Anti-PNPLA3 / Adiponutrin 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 1:128000.

**Western blot:** Approx 45kDa band observed in Mouse Heart lysates and in Mouse and Rat Adrenal gland lysates (calculated MW of 42.6kDa according to Mouse NP\_473429.2 and 47.1kDa according to Rat NP\_001269253.1). Recommended concentration: 0.01-0.03µg/ml. Primary incubation was 1 hour. An additional band of unknown identity was also consistently observed at 15kDa in the Adrenal Gland lysates. This band was successfully blocked by incubation with the immunizing peptide. Preliminary testing was unsuccessful on Human Heart for this particular batch.

**IHC:** In paraffin embedded Human Skin shows membranous staining of basak kayer cells. Recommended concentration: 4-6µg/ml.

### Species Reactivity

**Tested:** Human, Mouse, Rat

**Expected from sequence similarity:** Human, Mouse, Rat

### Specific References

**This antibody 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

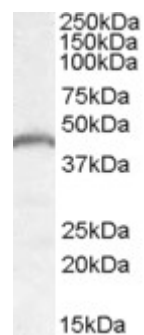
**This antibody has been successfully used in Western blot on Rat:**

Gustavsson C, Soga T, Wahlström E, Vesterlund M, Azimi A, Norstedt G, Tollet-Egnell P.

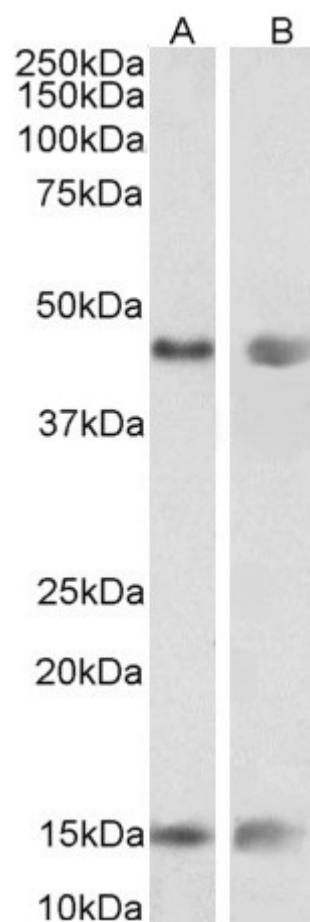
Sex-dependent hepatic transcripts and metabolites in the development of glucose intolerance and insulin resistance in Zucker diabetic fatty rats.

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

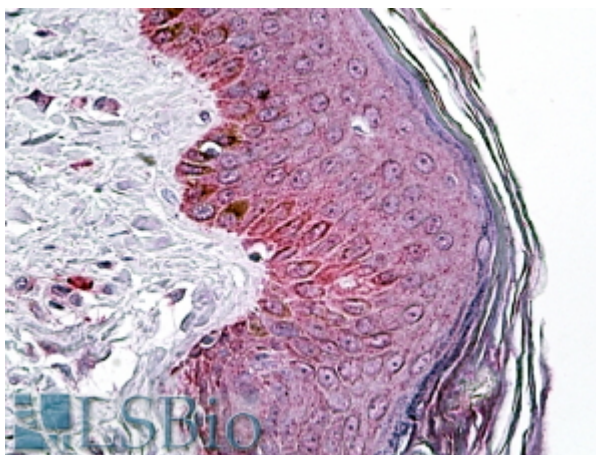
PMID: 21673048



EB08402 (0.05 $\mu$ g/ml) staining of Mouse Heart lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB08402 (0.01 $\mu$ g/ml) staining of Mouse (A) and Rat (B) Adrenal gland lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB08402 (3.8µg/ml) staining of paraffin embedded Human Skin. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.