



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Goat anti ATGL / pnpla2 (mouse)

With HRP-conjugated Secondary Antibody

Catalog No.
ER-14-0199

Target Species
Mouse, Human

Accession Number
NP_080078.1 (Mouse)
NP_065109.1 (Human)

Target Protein

Principal Names: triglyceride hydrolase, transport-secretion protein 2.2, pigment epithelium-derived factor, adipose triglyceride lipase, TTS2, TTS-2.2, PEDF-R, FP17548, DKFZp667M109, 1110001C14Rik, patatin-like phospholipase domain containing 2, PNPLA2, DESNUTRIN, ATGL

Official Symbol: PNPLA2

Accession Number(s): NP_065109.1

Human GeneID(s): 57104

Non-Human GeneID(s): 66853 (mouse), 361676 (rat)

Important Comments: Please note this antibody was designed using the Mouse sequence NP_080078.1, which differs by 2 amino acids from the Human sequence NP_065109.1.

Immunogen

Peptide with sequence C-NIIEVSKEARKR, from the internal region of the protein sequence according to NP_065109.1.

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 1:32000.

Western blot: Approx 60kDa band observed in Human Adipose, Heart and Testis lysates (calculated MW of 55.3kDa according to NP_065109.1). Recommended concentration: 0.5-2µg/ml.

IHC: In paraffin embedded Human Heart shows intense staining of distinct spots in the myocardial fibres in transverse section. Recommended concentration, 2-3µg/ml.

Species Reactivity

Tested: Human

Expected from sequence similarity: Human, Mouse, Rat, Cow, Pig

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Background Reference

Schoenborn V, Heid IM, Vollmert C, Lingenhel A, Adams TD, Hopkins PN, Illig T, Zimmermann R, Zechner R, Hunt SC, Kronenberg F.

The ATGL gene is associated with free fatty acids, triglycerides, and type 2 diabetes. Diabetes. 2006 May;55(5):1270-5.

PMID: 16644682

Secondary Antibody Applications

Immunoassay (ELISA, Western blotting): 1:5,000-1:10,000

Images



ER-14-0199 (0.5 μ g/ml) staining of Human Adipose lysate (35 μ g protein in RIPA buffer).
Primary incubation was 1 hour. Detected by chemiluminescence.

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