Datasheet for ABIN1881664

anti-PNPLA2 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	PNPLA2
Binding Specificity:	AA 49-78, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PNPLA2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This PNPLA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 49-78 amino acids from the N-terminal region of human PNPLA2.
Clone:	RB40409
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PNPLA2
Alternative Name:	PNPLA2 (PNPLA2 Products)
Background:	Catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets.

Target Details

	Also has acylglycerol transacylase activity. May act coordinately with LIPE/HLS within the lipolytic cascade. Regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. May play a role in the response of the organism to starvation, enhancing hydrolysis of triglycerides and providing free fatty acids to other tissues to be oxidized in situations of energy depletion.
Molecular Weight:	55316
NCBI Accession:	NP_065109
UniProt:	Q96AD5

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Hyrskyluoto, Bruelle, Lundh, Do, Kivinen, Rappou, Reijonen, Waltimo, Petersén, Lindholm, Korhonen: "Ubiquitin-specific protease-14 reduces cellular aggregates and protects against mutant huntingtin-induced cell degeneration: involvement of the proteasome and ER stress-activated kinase IRE1?." in: **Human molecular genetics**, Vol. 23, Issue 22, pp. 5928-39, (2014) (PubMed). Davila, Froeling, Tan, Bonnard, Boland, Snippe, Hibberd, Seielstad: "New genetic associations detected in a host response study to hepatitis B vaccine." in: **Genes and immunity**, Vol. 11,

Publications

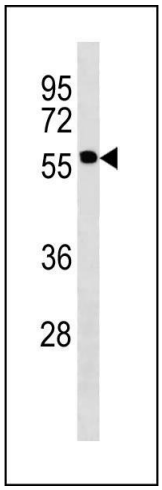
Issue 3, pp. 232-8, (2010) (PubMed).

Chen, Qin, Li, Walters, Wilson, Mei, Wilson: "The proteasome-associated deubiquitinating enzyme Usp14 is essential for the maintenance of synaptic ubiquitin levels and the development of neuromuscular junctions." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 29, Issue 35, pp. 10909-19, (2009) (PubMed).

Nagai, Kadowaki, Maruyama, Takeda, Nishitoh, Ichijo: "USP14 inhibits ER-associated degradation via interaction with IRE1alpha." in: **Biochemical and biophysical research communications**, Vol. 379, Issue 4, pp. 995-1000, (2009) (PubMed).

Mines, Goodwin, Limbird, Cui, Fan: "Deubiquitination of CXCR4 by USP14 is critical for both CXCL12-induced CXCR4 degradation and chemotaxis but not ERK ativation." in: **The Journal of biological chemistry**, Vol. 284, Issue 9, pp. 5742-52, (2009) (PubMed).

Images



Western Blotting

Image 1. PNPLA2 Antibody (N-term) (ABIN1881664 and ABIN2843218) western blot analysis in HepG2 cell line lysates (35 µg/lane).This demonstrates the PNPLA2 antibody detected the PNPLA2 protein (arrow).