Anti-LPIN1 antibody

Cat. No.	ml163631
Package	25 μl/100 μl/200 μl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-LPIN1 rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Synthetic peptide of human LPIN1
Reactivity	Human, Mouse
Content	1.4 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	LPIN1
Full name	lipin 1
Synonyms	PAP1
Swissprot	Q14693

Target Background

This gene encodes a magnesium-ion-dependent phosphatidic acid phosphohydrolase enzyme that catalyzes the penultimate step in triglyceride synthesis, including the dephosphorylation of phosphatidic acid to yield diacylglycerol. Expression of this gene is required for adipocyte differentiation and it also functions as a nuclear transcriptional coactivator with some peroxisome proliferator-activated receptors to modulate expression of other genes involved in lipid metabolism. Mutations in this gene are associated with metabolic syndrome, type 2 diabetes, and autosomal recessive acute recurrent myoglobinuria (ARARM). This gene is also a candidate for several human lipodystrophy syndromes. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their full-length structures have not been determined.

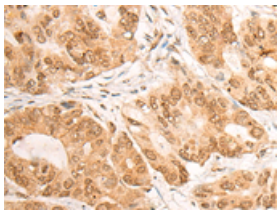
Applications

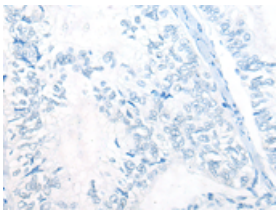
Immunohistochemistry

Predicted cell location: Nucleus membrane

Positive control: Human gastric cancer

Recommended dilution: 50-300





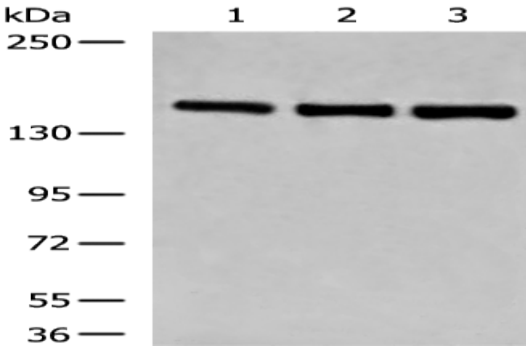
The image on the left is immunohistochemistry of paraffin-embedded Human gastric cancer tissue using ml163631(LPIN1 Antibody) at dilution 1/60, on the right is treated with synthetic peptide. (Original magnification: ×200)

Western blotting

Predicted band size:99 kDa

Positive control:NIH/3T3，K562 and HepG2 cell lysates

Recommended dilution: 500-2000



Gel: 6%SDS-PAGE

Lysate: 40 μg

Lane 1-3: NIH/3T3，K562 and HepG2 cell lysates

Primary antibody: ml163631(LPIN1 Antibody) at dilution 1/850

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 10 seconds

ELISA

Recommended dilution: 5000-10000

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