

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Perilipin in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Perilipin Thr8-Ala145 Accession # O60240
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Perilipin (Perilipin-1/A; also PLIN1 and Lipid droplet-associated protein) is a 62 kDa constitutively phosphorylated protein that belongs to the PAT (Perilipin/Adipophilin/TIP47) family of molecules. Found primarily in mature adipocytes, perilipin-1 interacts with lipid-coat proteins at the edge of the fat droplet and blocks lipase activity. Upon phosphorylation, perilipin-1 becomes a 65-67 kDa molecule that likely promotes the dispersion of docking molecules and provides a scaffold for lipase at the lipid droplet surface. Human perilipin-1 is 522 amino acids (aa) in length. It contains a lipid droplet targeting region (aa 233-364) that contains a polyGlu segment (aa 307-316). Phosphorylation at the N-terminus is necessary for lipase interaction with lipid. One 50-54 kDa human splice variant (perilipin-B) is reported that shows an 85 aa substitution for aa 404-522. This apparently interacts with cell membrane triglycerides. Over aa 8-145, human perilipin-1/A shares 97% aa identity with mouse perilipin-1.

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