

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                             |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human PLRP1 in direct ELISAs and Western blots.                                           |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                              |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                         |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant human PLRP1<br>Lys18-Cys467<br>Accession # P54315 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                   |
| <b>Formulation</b>                                                                                                                                                                                      | 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

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

## BACKGROUND

PNLIPRP1 (pancreatic lipase related protein 1; also PLRP1) is a secreted 50-55 kDa member of the lipase family, AB hydrolase superfamily of proteins. It is expressed by sublingual gland epithelium (in mouse) and pancreatic acinar cells, and is now suggested to act as a negative regulator of pancreatic lipase (PL) activity by competing with PL for colipase occupancy. Mature human PLRP1 is 450 amino acids (aa) in length (aa 18-467). It contains one PLAT domain (aa 356-467), and a Val196/Ala198 motif that inactivates its otherwise expected intrinsic lipase activity. There are two isoform variants. One shows a 76 aa substitution for aa 111-467, while another shows a seven aa substitution for aa 111-467. Mature human PLRP1 (aa 18-467) shares 83% aa identity with mature mouse PLRP1.

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