

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SGPL1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SGPL1 Lys342-His568 Accession # O95470
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

SGPL1 (Sphingosine-1-phosphate lyase; also hSPL) is a 60-63 kDa member of the SGPL1 subfamily, group II decarboxylase family of enzymes. It is very widely expressed, and particularly concentrated in cells undergoing rapid turnover. SGPL1 is found in the ER, and cleaves phosphorylated sphingoid bases into fatty aldehydes and phosphoethanolamine. This regulates a diversity of cellular processes such as apoptosis and T cell migration. Human SGPL1 is 568 amino acids (aa) in length. It is a type III transmembrane protein (luminal N-terminus with no signal sequence) that contains a 507 aa cytoplasmic domain (aa 62-568). This domain contains a vitamin B6 binding site (aa 344-364) that is part of a large catalytic region (aa 116-506). Over aa 342-568, human SGPL1 shares 86% aa identity with mouse SGPL1.

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