

# Sphingosine 1-Phosphate Antibody (LT1002)

Z-P300

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## **Description:**

Mouse monoclonal antibody targeting Sphingosine 1-Phosphate (S1P)

## Applications:

IHC - 1:501

ELISA - 1:1000<sup>2</sup>

Lipid Protein Overlay - not recommended

Other in vitro and cellular applications are possible using this antibody but have not been verified by Eche-Ion Biosciences.

## **Properties:**

Form - liquid

Storage instructions – Antibody is stable for up to 1 year at -20°C. Antibody is stable at 4°C for up to 60 days. Avoid repeated freeze/thaw cycles.

Storage buffer - PBS, pH 7.4

Concentration - 1 mg/mL

Purity - Protein G affinity purified

Immunogen - Thiolated S1P conjugated to KLH

Clonality - monoclonal; clone LT1002

Isotype - IgGK1

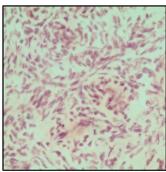
# Specificity:

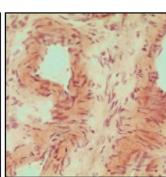
Limited cross reactivity with other lipids based on data from a competitive ELISA2.

## Background:

Sphingosine 1-Phosphate (S1P) is a key component of the sphingolipid signaling cascade. S1P initiates a proliferative, pro-angiogenic and anti-apoptotic sequence of events contributing to cancer progression. Recently, scientific literature has suggested that S1P is a potent tumorigenic growth factor that is likely released from tumor cells and that S1P may be a novel biomarker for early-stage cancer detection.

## Data: Immunofluorescence





Frozen human ovary tissue was sectioned at 5µm and mounted to glass histology slides. Sections were stained with either S1P Antibody (clone LT1002) in conjunction with an HRP-conjugated secondary antibody or with secondary

# References:

- 1. Visentin B, Reynolds G, Sabbadini R. (2012) Immunohistochemical detection of sphingosine-1phosphate and sphingosine kinase-1 in human tissue samples. Methods Mol Biol. 874:55-67.
- 2. O'Brien N, Jones ST, Williams DG, Cunningham HB, Moreno K, Visentin B, et al. (2009) Production and characterization of monoclonal anti sphingosine-1-phosphate antibodies. J Lipid Res.;50(11):2245-57.
- 3. Swaney JS, Moreno KM, Gentile AM, Sabbadini RA, Stoller GL. (2008) Sphingosine-1-phosphate (S1P) is a novel fibrotic mediator in the eye. Exp Eye Res. ;87(4):367-75.

# Related Products:

Products	Catalog Number
Assays and Reagents	
S1P ELISA	K-1900
S1P	S-2000
S1P Lyase, active	E-5000P
Lipids and Antibodies	
S1P Fluorescein	S-200F
S1P Lyase, Fluorogenic Substrate	S-200U

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S1P antibody (LT1002) was originally developed and patented at Lpath Therapeutics.

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