

Mouse Group IID Secretory Phospholipase A2 (PLA2G2D) ELISA Kit-Sandwich

Cat. No.: EK5F519

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Group IID Secretory Phospholipase A2 (PLA2G2D) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse PLA2G2D in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Group IID Secretory Phospholipase A2 (PLA2G2D).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	31.25-2000 pg/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Group IID secretory phospholipase A2 is a calcium-dependent enzyme that targets extracellular lipids, playing roles in reducing inflammation and suppressing the immune system. This enzyme specifically hydrolyzes the ester bond of the fatty acyl group at the sn-2 position of phospholipids, with a preference for phosphatidylethanolamines and phosphatidylglycerols over phosphatidylcholines. In mice, Group IID secretory phospholipase A2 is involved in regulating inflammatory and immune responses, providing antiviral defense, and influencing age-related disease risks. These roles make it a significant focus for the study of inflammation, immune modulation, and antiviral treatments. Interestingly, mice lacking this enzyme (sPLA2-IIID) showed higher survival rates after SARS-CoV-2 infection, with enhanced T cell responses and reduced lung damage.

Target/Biomarker	Mouse PLA2G2D
------------------	---------------

Target Synonym	PLA2G2D; sPLA2S; s-PLA2; sPLA2; SPLASH; Secreted Phospholipase A2; Phosphatidylcholine 2-acylhydrolase 2D; Secretory-type PLA; stroma-associated homolog
Gene ID	18782
UniProt ID	Q9WVF6

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.