

Mouse Anti-Porcine Monoglyceride Lipase (MGLL) Monoclonal Antibody

Cat. No.: VD10N53

Product Type: Animal-targeted Antibodies

Size: 100ug

Product Overview

BioVenic mouse monoclonal antibody is specific for monoglyceride lipase. It is affinity purified by protein A. It can be applied to WB and Indirect ELISA assays of monoglyceride lipase.

Specifications

Application	WB; Indirect ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	O11N53
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	Monoglyceride Lipase
Isotype	IgG2
Immunogen	Recombinant protein of monoglyceride lipase
Purification	Protein A Purified
Concentration	1 mg/mL
Conjugation	Unconjugated
Buffer	Phosphate Buffered Saline
Physical State	Liquid

Target Information

Porcine monoglyceride lipase (MGL), also known as porcine monoacylglycerol lipase, is a serine hydrolase that plays a pivotal role in the degradation of monoacylglycerols, particularly the hydrolysis of 2-arachidonoylglycerol (2-AG), an endocannabinoid. This enzyme is widely distributed in various cellular structures such as the plasma membrane, endoplasmic reticulum, and lipid droplets, and it significantly impacts lipid metabolism and the metabolism of polyunsaturated fatty acids. The inhibition of MGL has been shown

to suppress the proliferation of certain cancer cells, highlighting its potential as a promising target for cancer treatment. The development of covalent small molecule inhibitors of MGL has progressed rapidly, offering a new approach to targeted cancer therapy with the advantages of strong covalent binding, high affinity, long duration of action, low dosage, and reduced risk of drug resistance. The structural and functional characteristics of MGL, along with the progress in the development of its covalent inhibitors, provide a valuable foundation for the creation of novel therapeutic strategies against cancer and other diseases where MGL activity is implicated.

Target	Monoglyceride Lipase
Target Synonym	HU K5
Gene ID	100233193
UniProt ID	A0A286ZUB0

Shipping and Storage

This product is shipped with ice gel packs. Store at -80°C on receipt.

Reference

Karlsson, Marie, *et al.* "cDNA cloning, tissue distribution, and identification of the catalytic triad of monoglyceride lipase: evolutionary relationship to esterases, lysophospholipases, and haloperoxidases." *Journal of Biological Chemistry* 272.43 (1997): 27218-27223.

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