

Goat Anti-Monoglyceride Lipase Antibody
Peptide-affinity purified goat antibody
Catalog # AF1678a

Specification

Goat Anti-Monoglyceride Lipase Antibody - Product Information

Application	WB
Primary Accession	O99685
Other Accession	NP_001003794 , 11343 , 23945 (mouse) , 29254 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	33261

Goat Anti-Monoglyceride Lipase Antibody - Additional Information

Gene ID 11343

Other Names

Monoglyceride lipase, MGL, 3.1.1.23, HU-K5, Lysophospholipase homolog, Lysophospholipase-like, Monoacylglycerol lipase, MAGL, MGLL

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-Monoglyceride Lipase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Monoglyceride Lipase Antibody - Protein Information

Name MGLL ([HGNC:17038](#))

Function

Converts monoacylglycerides to free fatty acids and glycerol (PubMed:19029917, PubMed:20079333, PubMed:21049984, PubMed:21049984, PubMed:21049984, PubMed:21049984)

<http://www.uniprot.org/citations/22969151> target="_blank">22969151, PubMed:24368842). Hydrolyzes the endocannabinoid 2- arachidonoylglycerol, and thereby contributes to the regulation of endocannabinoid signaling, nociception and perception of pain (PubMed:19029917, PubMed:20079333, PubMed:21049984, PubMed:22969151, PubMed:24368842). Regulates the levels of fatty acids that serve as signaling molecules and promote cancer cell migration, invasion and tumor growth (PubMed:20079333).

Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:O35678}. Membrane {ECO:0000250|UniProtKB:O35678}; Peripheral membrane protein {ECO:0000250|UniProtKB:O35678}

Tissue Location

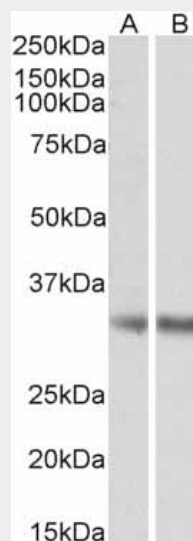
Detected in adipose tissue, lung, liver, kidney, brain and heart.

Goat Anti-Monoglyceride Lipase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-Monoglyceride Lipase Antibody - Images



AF1678a (0.5 µg/ml) staining of Human Frontal Cortex (A) and Mouse Adipose (B) lysates (35 µg

protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Monoglyceride Lipase Antibody - Background

Monoglyceride lipase (MGLL; EC 3.1.1.23) functions together with hormone-sensitive lipase (LIPASE; MIM 151750) to hydrolyze intracellular triglyceride stores in adipocytes and other cells to fatty acids and glycerol. MGLL may also complement lipoprotein lipase (LPL; MIM 238600) in completing hydrolysis of monoglycerides resulting from degradation of lipoprotein triglycerides (Karlsson et al., 2001 [PubMed 11470505]).

Goat Anti-Monoglyceride Lipase Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Monoacylglycerol lipase regulates a fatty acid network that promotes cancer pathogenesis. Nomura DK, et al. Cell, 2010 Jan 8. PMID 20079333.

Structural basis for human monoglyceride lipase inhibition. Bertrand T, et al. J Mol Biol, 2010 Feb 26. PMID 19962385.

Crystal structure of the human monoacylglycerol lipase, a key actor in endocannabinoid signaling. Labar G, et al. Chembiochem, 2010 Jan 25. PMID 19957260.

Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.