

## Rabbit anti-Human MGLL Polyclonal Antibody | anti-MGLL antibody

MGLL Antibody (N-term)

|                               |                       |                            |                                            |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA284903</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|

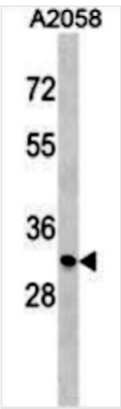
### PRODUCT SYNONYMS

MGLL; Polyclonal Antibody; MGLL Antibody (N-term); Monoglyceride lipase; MGL; HU-K5; Lysophospholipase homolog; Lysophospholipase-like; Monoacylglycerol lipase; MAGL; anti-MGLL antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Isotype                                        | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Specificity                                    | This MGLL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-63 amino acids from the N-terminal region of human MGLL.                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                            | This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format                                    | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Positions                             | 34-63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                                | 283                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Applicable Applications for anti-MGLL antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Function                                       | Function Converts monoacylglycerides to free fatty acids and glycerol (PubMed:19029917, PubMed:20079333, PubMed:21049984, PubMed: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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                      |

IMAGES



**WB (Western Blot)**  
MGLL Antibody (N-term) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the MGLL antibody detected the MGLL protein (arrow).

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-MGLL antibody | Monoglyceride lipase (MGLL; EC 3.1.1.23) functions together with hormone-sensitive lipase (LIPE; 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]).[supplied by OMIM]. |
| Product Categories/Family for anti-MGLL antibody   | Cancer; Cardiovascular; Metabolism; Neuroscience; Signal transduction                                                                                                                                                                                                                                                                                                                                                                                 |
| References                                         | Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)<br>Karageorgos, I., et al. Mol Biosyst 6(8):1381-1388(2010)<br>Bertrand, T., et al. J. Mol. Biol. 396(3):663-673(2010)<br>Labar, G., et al. Chembiochem 11(2):218-227(2010)<br>Nomura, D.K., et al. Cell 140(1):49-61(2010)                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| NCBI GI #                        | 51242953                                    |
| NCBI GeneID                      | 11343                                       |
| NCBI Accession #                 | NP_001003794.1; NP_001243514.1; NP_009214.1 |
| NCBI GenBank Nucleotide #        | NM_001003794.2                              |
| UniProt Accession #              | Q99685; Q6IBG9; Q96AA5; B3KRC2; B7Z9D1      |
| Molecular Weight                 | 33261                                       |
| NCBI Official Full Name          | monoglyceride lipase isoform 2              |
| NCBI Official Synonym Full Names | monoglyceride lipase                        |
| NCBI Official Symbol             | MGLL                                        |
| NCBI Official Synonym Symbols    | MGL; HUK5; MAGL; HU-K5                      |
| NCBI Protein Information         | monoglyceride lipase                        |
| UniProt Protein Name             | Monoglyceride lipase                        |
| UniProt Gene Name                | MGLL                                        |
| UniProt Synonym Gene Names       | MAGL                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mgll-antibody-western-blot-elisa/284903>