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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB08850 - Goat Anti-Monoglyceride Lipase Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: monoglyceride lipase, HU-K5, MGLL, MGL, lysophospholipase-like

Official Symbol: MGLL

Accession Number(s): NP_009214.1; NP_001003794.1

Human GeneID(s): [11343](#)

Non-Human GeneID(s): 23945 (mouse), 29254 (rat)

Important Comments: This antibody is expected to recognize both reported isoforms (NP_009214.1; NP_001003794.1).

Immunogen

Peptide with sequence C-QDPLHLVNADGQY, from the internal region (near N Terminus) of the protein sequence according to NP_009214.1; NP_001003794.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

Western blot: Approx 35kDa band observed in Mouse Adipose lysates and in preliminary testing of Human, Cerebellum lysate and in lysate of cell line NIH3T3 (calculated MW of 33.3kDa according to NP_001003794.1). Recommended concentration: 0.3-1µg/ml.

Primary incubation 1 hour at room temperature. Preliminary testing was unsuccessful on Rat for this particular batch.

IHC: In paraffin embedded Human Liver, expression of MGLL is detected in hepatocytes. Recommended concentration: 5µg/ml.

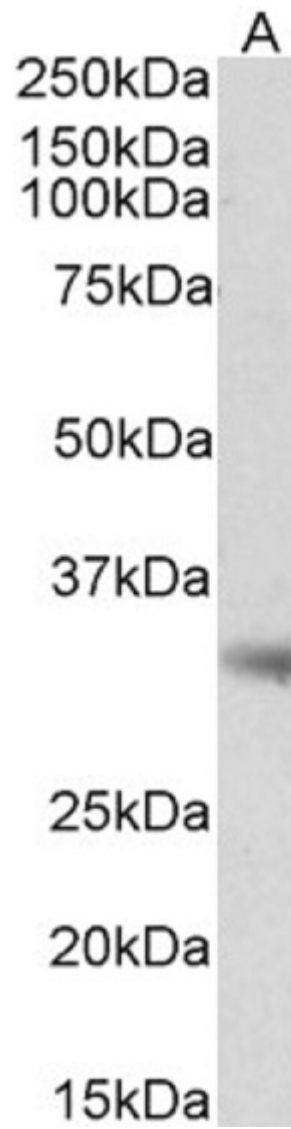
Immunofluorescence: Strong expression of the protein seen in the cytoplasm of U2OS and A431 cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

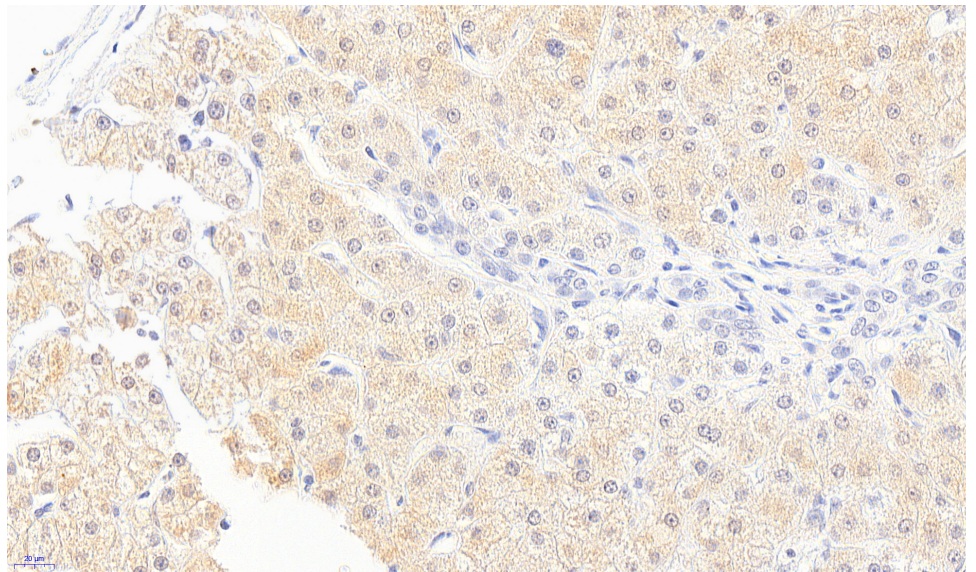
Species Reactivity

Tested: Human, Mouse

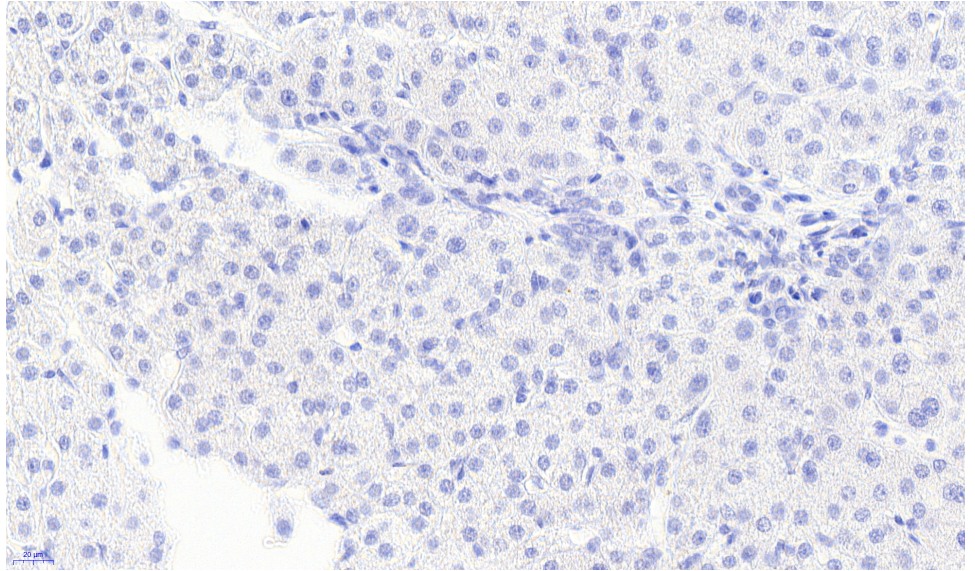
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow



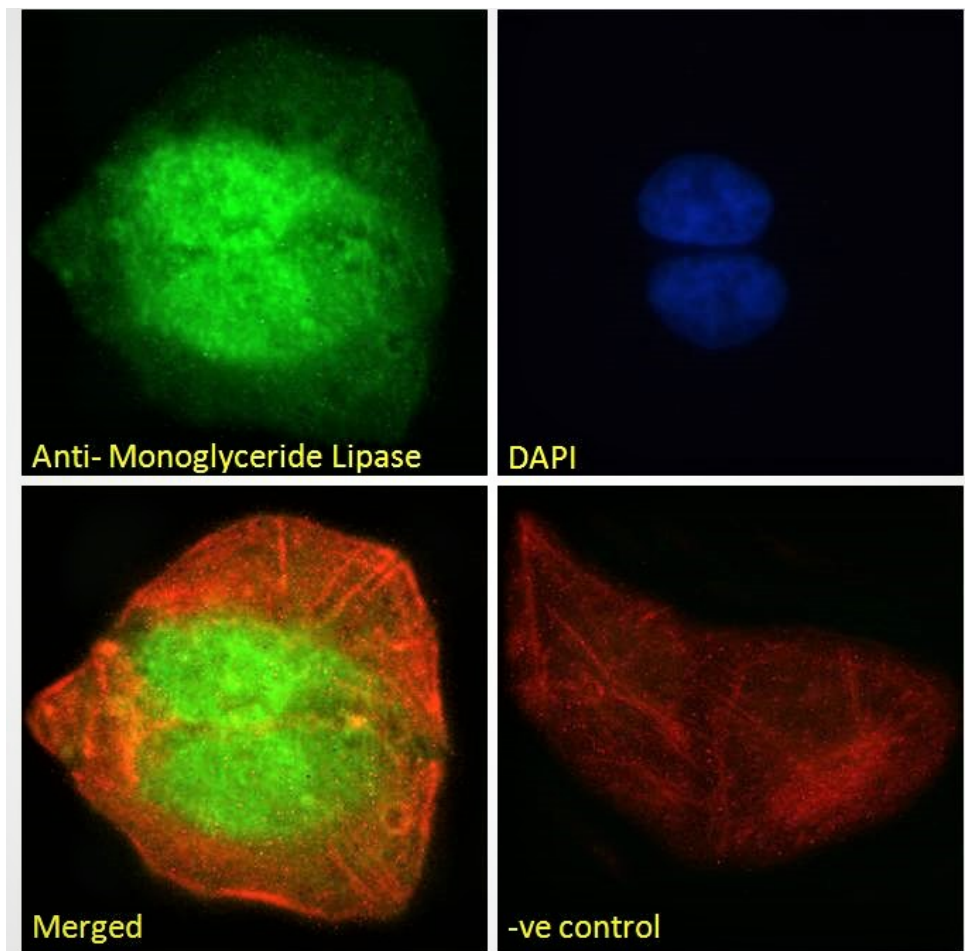
EB08850 (0.5 μ g/ml) staining of Mouse Adipose lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



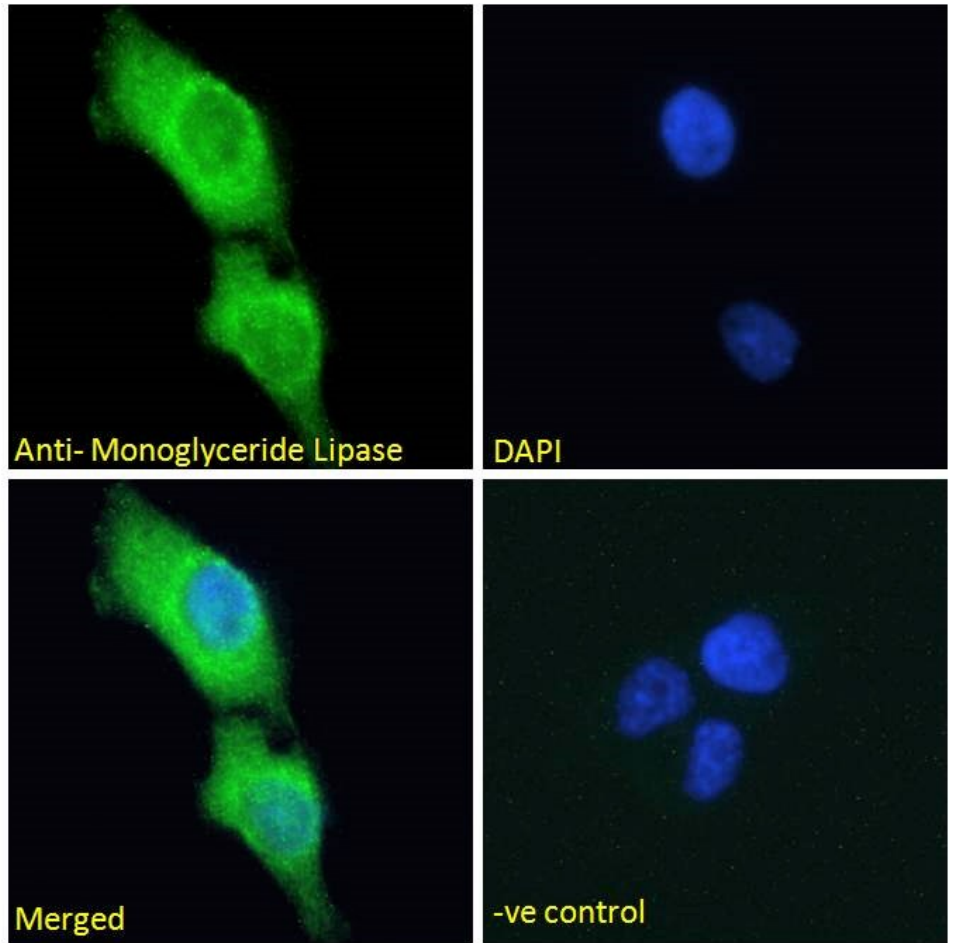
EB08850 (5 μ g/ml) staining of paraffin embedded Human Liver. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



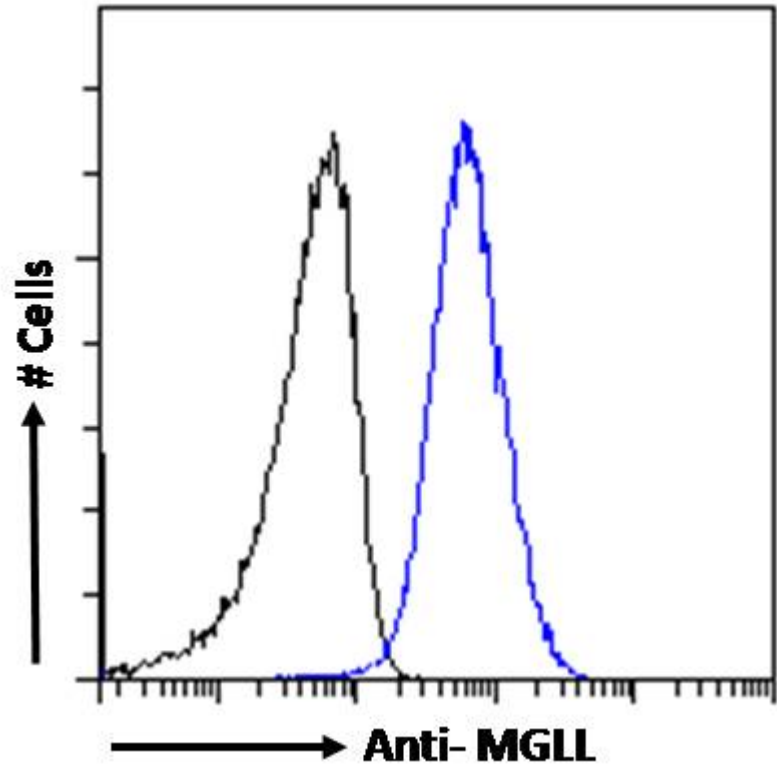
EB08850 Negative Control showing staining of paraffin embedded Human Liver, with no primary antibody.



EB08850 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB08850 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB08850 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.