International Office

Everest Biotech Ltd
Vector Laboratories, Inc.
6737 Mowry Ave
Newark, CA 94560
United States

Customer Service:
customerservice@vectorlabs.com
Technical Service:
technical@vectorlabs.com

Tel: +1 (800) 227-6666

www.everestbiotech.com

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-QDLPHLVNADGQY, 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

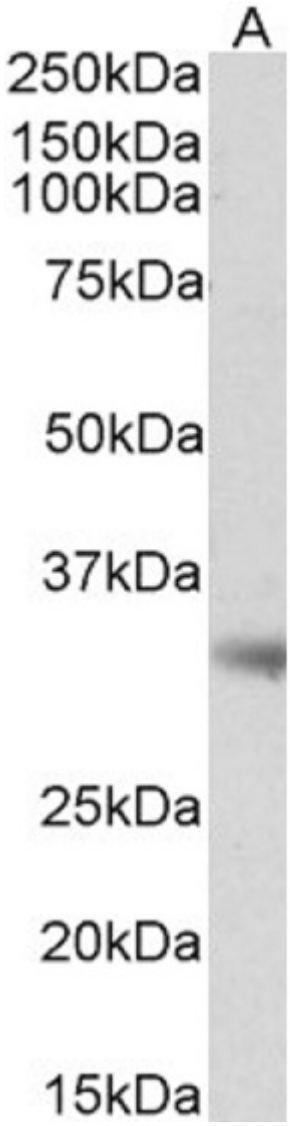
Peptide ELISA: antibody detection limit dilution 1:128000.
Western blot: Approx 35kDa band observed in Mouse Adipose lysates and in preliminary testing of Human, Cerebellum lysate and in lysate of cell line NIH3T3 (calculated MW of 33.3kDa according to NP_001003794.1). Recommended concentration: 0.3-1µg/ml. 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.

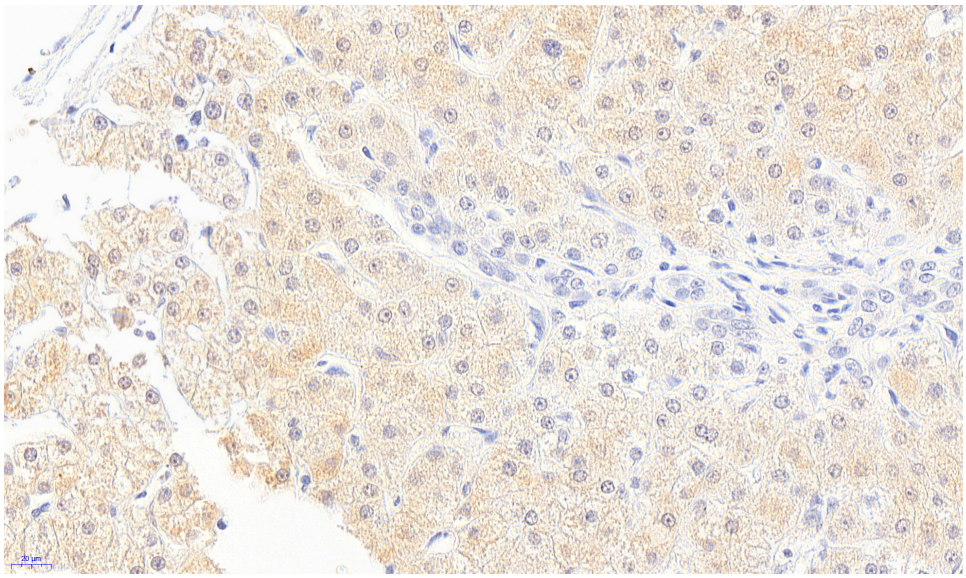
Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

Species Reactivity

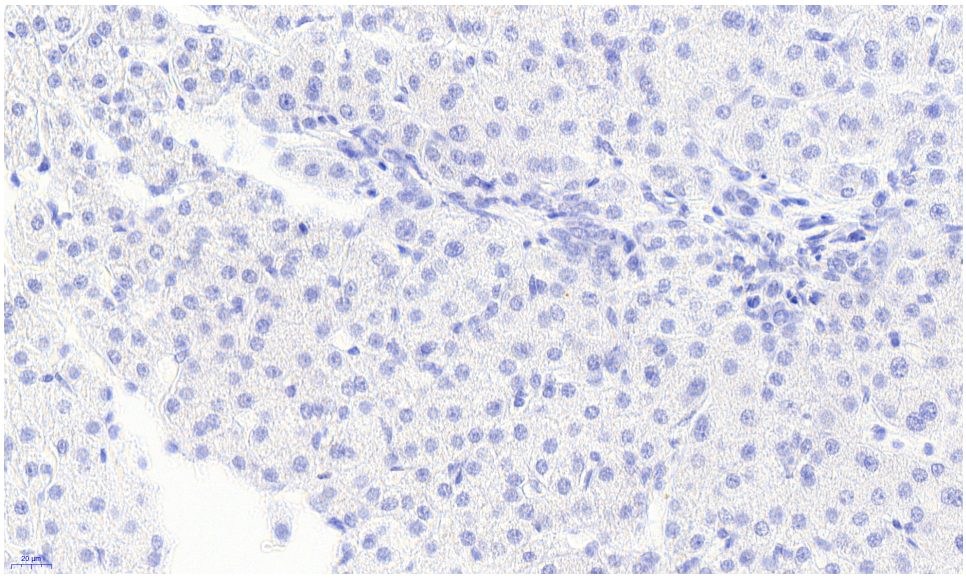
Tested: Human, Mouse
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow



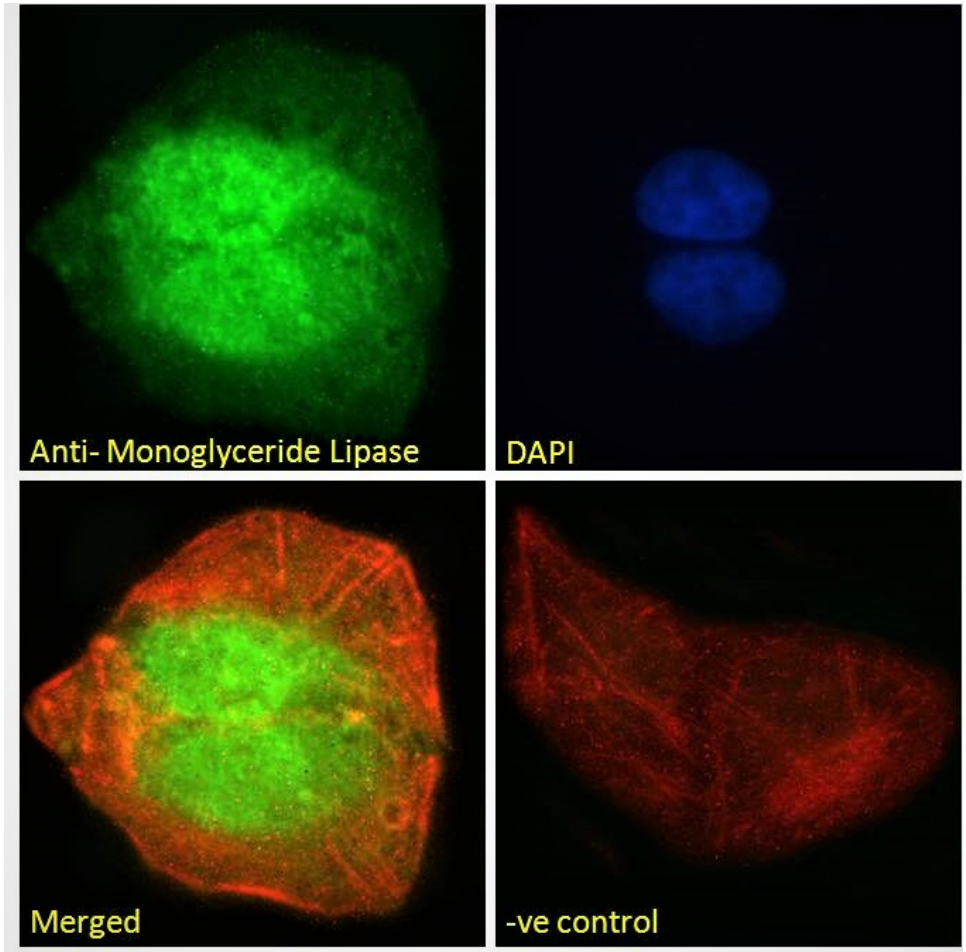
EB08850 (0.5µg/ml) staining of Mouse Adipose lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



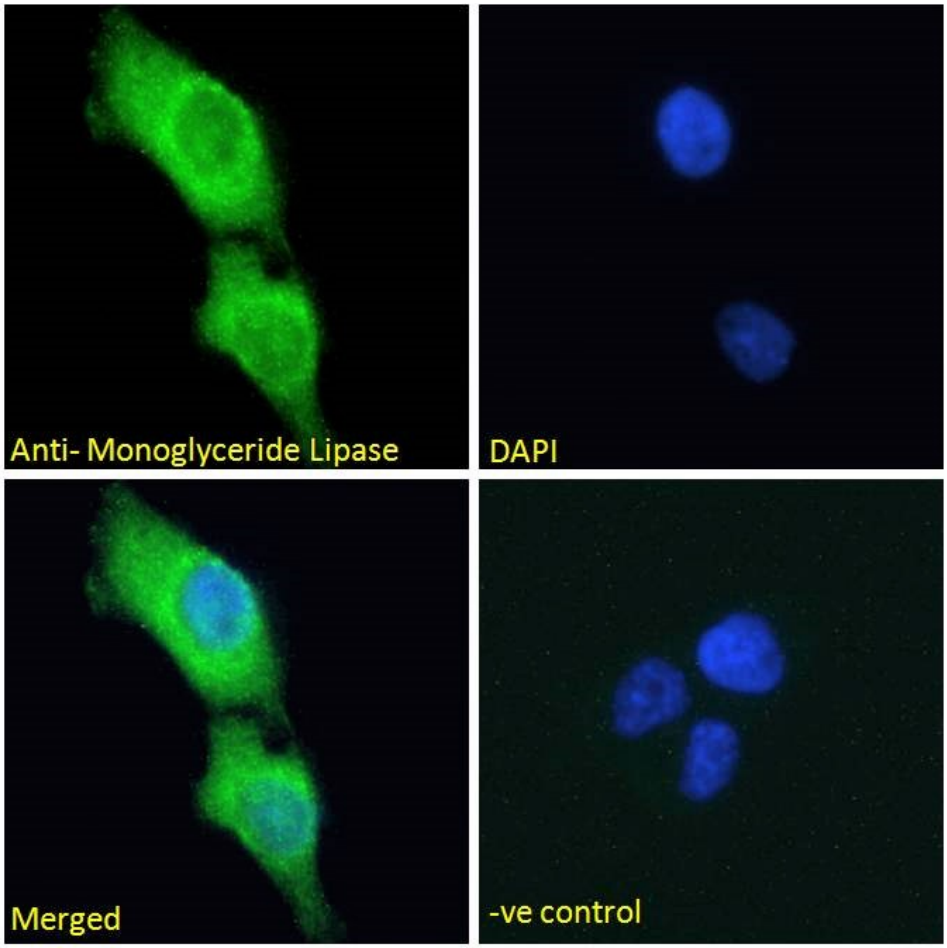
EB08850 (5µg/ml) staining of paraffin embedded Human Liver. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



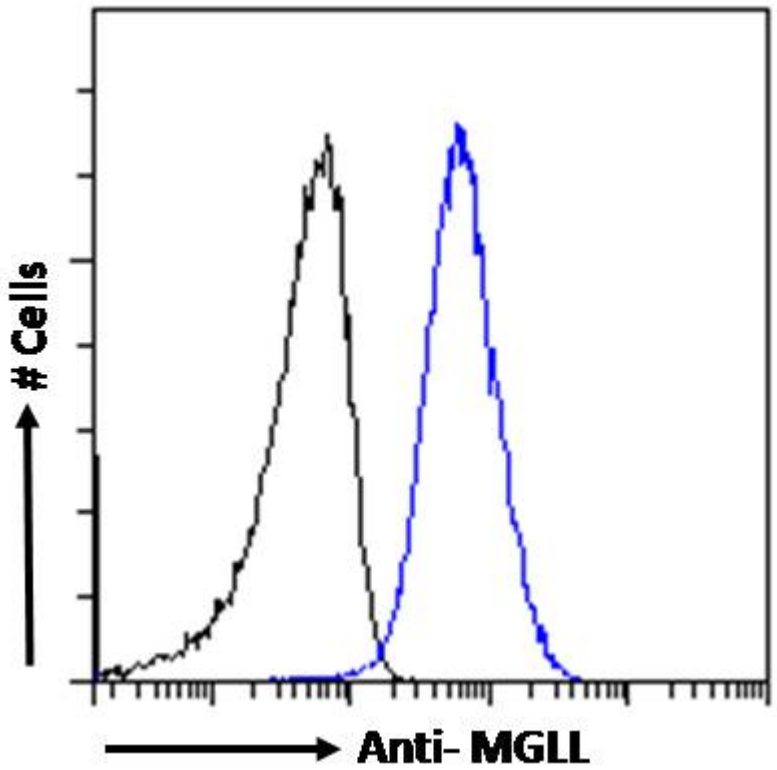
EB08850 Negative Control showing staining of paraffin embedded Human Liver, with no primary antibody.



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.