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Research Use Only. Not for diagnostic or therapeutic use.

EB06817-T - Goat Anti-Caveolin 1 Antibody - Trial

Size: 20µg specific antibody in 40µl



Target Protein

Principal Names: CAV1, caveolin 1, caveolae protein, 22kDa, HGNC:1527, CAV, MSTP085, VIP21, caveolae protein, 22-kD, caveolin 1, caveolin 1 caveolae protein, 22kD, caveolin 1, alpha isoform, caveolin 1, beta isoform, cell growth-inhibiting protein 32,

BSCL3, CGL3, LCCNS
Official Symbol: CAV1

Accession Number(s): NP_001744.2; NP_001166366.1

Human GeneID(s): 857

Non-Human GenelD(s): 12389 (mouse), 25404 (rat)

Important Comments: This antibody is expected to recognize both reported isoforms (NP_001744.2; NP_001166366.1). Reported variants represent identical protein: NP_001166367.1, NP_001166368.1, NP_001166366.1. No cross-reactivity expected to Caveolin 2 and Caveolin 3

Immunogen

Peptide with sequence C-DELSEKQVYDAH, from the internal region of the protein sequence according to NP_001744.2; NP_001166366.1.

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 1:8000.

Western blot: Approx 22kDa band observed in lysates of cell lines A431 and A549 and in Human Heart lysates (calculated MW of 20.5kDa according to NP_001744.2).

Recommended concentration: 0.001-0.01µg/ml. Primary incubation 1 hour at room temperature. Preliminary testing was unsuccessful on Pig Heart and Spleen, and Mouse and Rat Lung for this particular batch.

IHC: Paraffin embedded Human Uterus. Recommended concentration: 2.5µg/ml.

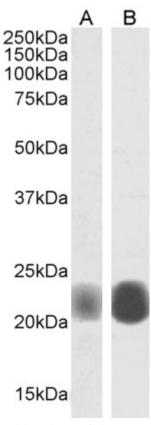
Immunofluorescence: Strong expression of the protein seen in the Golgi and membranes of A431 cells and in the cytoplasm and Golgi of U2OS cells. Recommended concentration: 10µg/ml.

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

Species Reactivity

Tested: Human

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

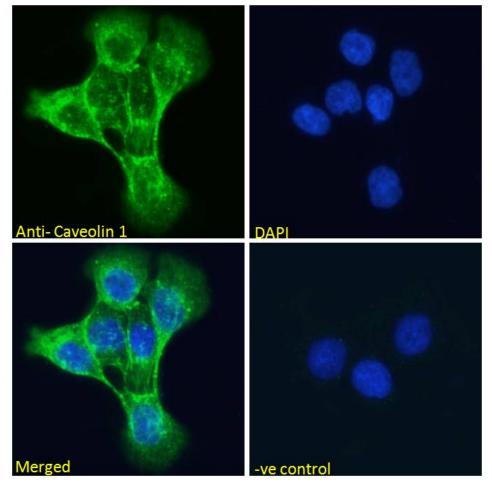


EB06817 (0.003μg/ml) staining of A431 (A) and (0.001ug/ml) A549 cell lysate (35μg protein in RIPA buffer).

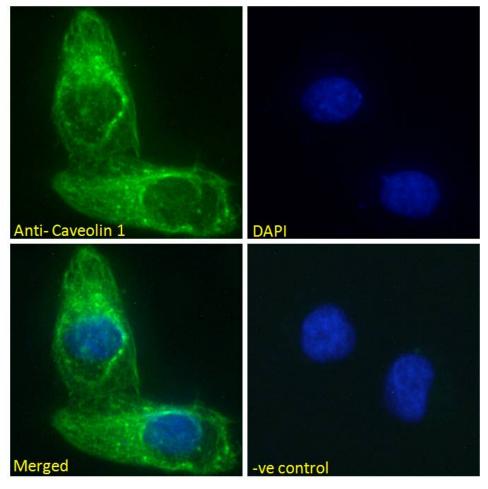
Detected by chemiluminescence.



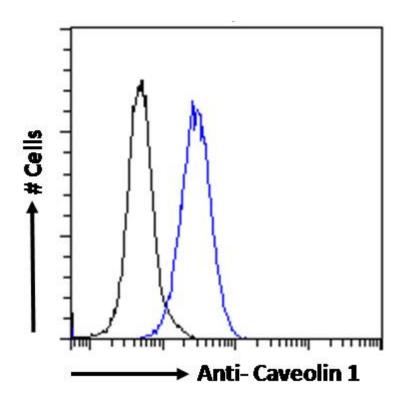
EB06817 (0.003μg/ml) staining of Human Heart lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



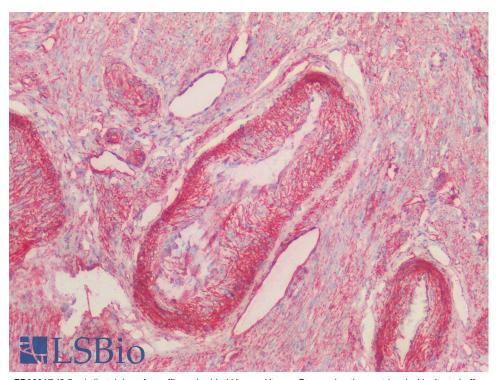
EB06817 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Golgi and membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06817 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 Golgi and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06817 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation overnight (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.



EB06817 (2.5 μ g/ml) staining of paraffin embedded Human Uterus. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.