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EB13106 - Goat Anti-PPARGC1A Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names:
Official Symbol: PPARGC1A
Accession Number(s): NP_037393.1, NP_001317680.1, NP_001317681.1, NP_001317682.1 , NP_001341756.1
Human GeneID(s): 10891
Important Comments: This antibody appears to recognise multiple isoforms and is an alternative product to EB07856.

Immunogen

Peptide with sequence RDSVSPPKSLFSQC, from the internal region of the protein sequence according to NP_037393.1, NP_001317680.1, NP_001317681.1, NP_001317682.1 , NP_001341756.1.

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. 70+90kDa bands observed in lysates of cell line A431 and in nuclear HEK293 cell lysates, and an additional 85kDa band observed in HepG2 cell lysate (calculated MW of 91.0kDa according to NP_037393.1, 89.6kDa according to NP_001317681.1, and 77.1kDa according to NP_001317682.1). All bands were successfully blocked by incubation with the immunizing peptide. Recommended concentration: 1.5-3µg/ml. Primary incubation 1 hour at room temperature.

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

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

Species Reactivity

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

EB13106 (3µg/ml) staining of A431 (A) and HepG2 (B) cell lysate, and (1.5ug/ml) HEK293 nuclear cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB13106 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 nuclear 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).

EB13106 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 staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB13106 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.