

UK Office

Everest Biotech Ltd

Cherwell Innovation Centre
77 Heyford Park
Upper Heyford
Oxfordshire
OX25 5HD
UK

Enquiries:

info@everestbiotech.com

Sales:

sales@everestbiotech.com

Tech support:

support@everestbiotech.com

Tel: +44 (0)1869 238326

www.everestbiotech.com

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

EB12834 - Goat Anti-HSP60 / HSPD1 (aa333-344) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: HSPD1, heat shock 60kDa protein 1 (chaperonin), CPN60, GROEL, HLD4, HSP-60, HSP60, HSP65, HuCHA60, SPG13, 60 kDa chaperonin, 60 kDa heat shock protein, mitochondrial, P60 lymphocyte protein, chaperonin 60, heat shock protein 65, mitochondrial matrix prote

Official Symbol: HSPD1

Accession Number(s): NP_002147.2

Human GeneID(s): [3329](#)

Important Comments: Reported variants represent identical protein: NP_955472.1, NP_002147.2.

Immunogen

Peptide with sequence C-NLEDVQPHDLGK, from the internal region of the protein sequence according to NP_002147.2.

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 1:64000.

Western blot: Approx 60kDa band observed in Human and Pig Heart, Kidney and Liver and in Rat Kidney lysates (calculated MW of 61.1kDa according to Human NP_002147.2 and 60.9kDa according to Pig NP_001241645.1 and Rat NP_071565.2). Recommended concentration: 0.01-0.1µg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Kidney. Recommended concentration: 5µg/ml.

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

Species Reactivity

Tested: Human, Rat, Pig

Expected from sequence similarity: Human, Dog, Pig, Cow

EB12834 (0.03µg/ml) staining of Human Heart (A), Kidney (B) and Liver (C) lysate and in Pig Heart (D), Kidney (E) and Liver (F) lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB12834 (0.1µg/ml) staining of Rat Kidney lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB12834 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml), showing Mitochondrial staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml).

EB12834 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 staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB12834 (5µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.