

#### 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

Research Use Only. Not for diagnostic or therapeutic use.

# EB10188 - Goat Anti-NDUFS1 Antibody

Size: 100µg specific antibody in 200µl



## **Target Protein**

**Principal Names:** CI-75Kd, complex I, mitochondrial respirato, MGC26839, NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa, NADH dehydrogenase (ubiquinone) Fe-S protein 1, 75kDa (NADH-coenzyme Q reductase), NADH-coenzyme Q reductase,

OTTHUMP00000206345, PRO1304, NDUFS1

Official Symbol: NDUFS1

Accession Number(s): NP\_004997.4; NP\_001186910.1; NP\_001186911.1;

NP\_001186912.1; NP\_001186913.1

Human GeneID(s): 4719

Non-Human GenelD(s): 227197 (mouse), 301458 (rat)

Important Comments: This antibody is expected to recognise isoforms NP\_004997.4;

NP\_001186910.1; NP\_001186911.1; NP\_001186912.1; NP\_001186913.1

### **Immunogen**

Peptide with sequence C-TEKSATYVNTEGR, from the internal region of the protein sequence according to NP\_004997.4; NP\_001186910.1; NP\_001186911.1; NP\_001186913.1.

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 1:64000.

**Western blot:** Approx. 75kDa band observed in lysates of cell lines HEK293 and NIH3T3 and in Rat Heart lysates, and approx. 80kDa in Human and Mouse Heart and in Human Skeletal Muscle lysates (calculated MW of 79.5kDa according to Human NP\_004997.4 and Rat NP\_001005550.1, 75.4kDa according to Human NP\_001186910.1, and 79.8kDa according to Mouse NP\_001153510.1). Recommended concentration: 0.1-0.5μg/ml. Primary incubation 1 hour at room temperature.

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

**Immunofluorescence:** Strong expression of the protein seen in U2OS cells.

Recommended concentration: 10µg/ml.

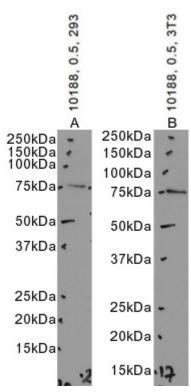
Flow Cytometry: Flow cytometric analysis of HEK293 cells. Recommended

concentration: 10ug/ml.

### **Species Reactivity**

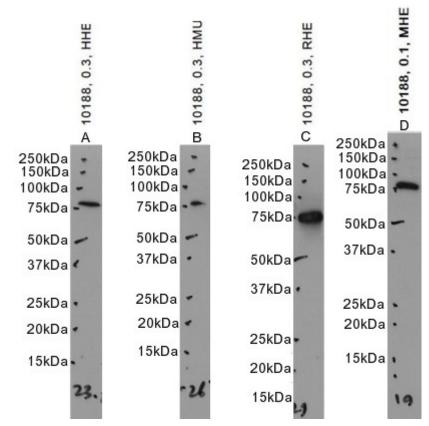
Tested: Human, Mouse, Rat

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



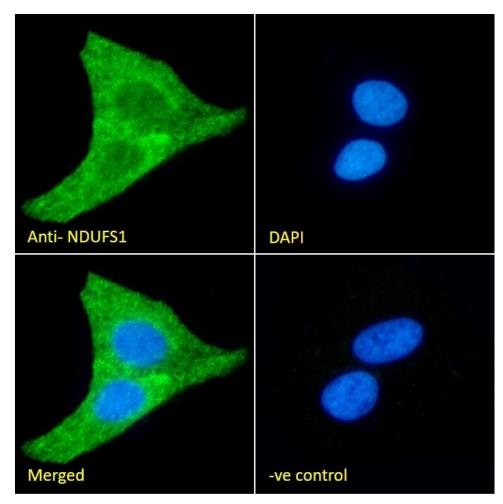
EB10188 optimised QC. Primary incubation 1 hour at room temperature.

Images A, B: HEK293, NIH3T3 cell lysate at primary Ab concentration 0.5ug/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



EB10188 optimised QC. Primary incubation 1 hour at room temperature.

Images A, B, C: Human Heart, Human Skeletal Muscle, Rat Heart lysate at primary Ab concentration 0.3ug/ml. Image D: Mouse Heart lysate at primary Ab concentration

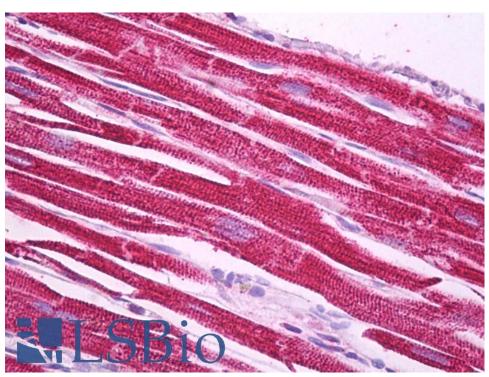


EB10188 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton.

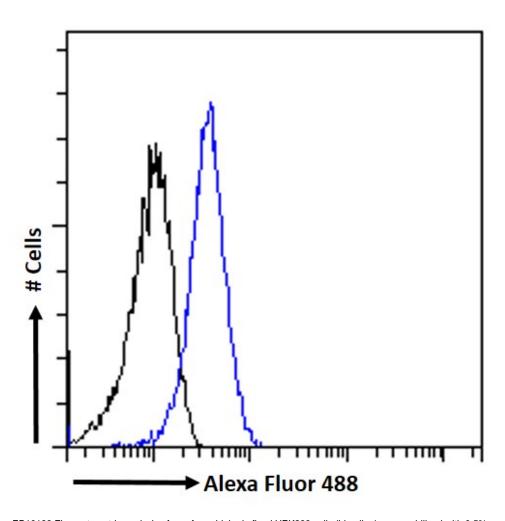
Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing

mkitochondria/cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG

(10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB10188 (5µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB10188 Flow cytometric analysis of paraformaldehyde fixed HEK293 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.