

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.**

EB07088 - Goat Anti-IFT88 / Polaris Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: IFT88, polaris, TTC10, tetratricopeptide repeat domain 10, HGNC:20606, D13S1056E, DAF19, IFT88, MGC26259, RP11-172H24.2, TG737, hTg737, TPR repeat protein 10, Probe hTg737 (polycystic kidney disease, autosomal recessive), Tg737 protein, intraflagellar transport 88 homolog, recessive polycystic kidney disease protein Tg737 homolog, intraflagellar transport 88 homolog (Chlamydomonas)

Official Symbol: IFT88

Accession Number(s): NP_783195.2; NP_006522.2, NP_001340507.1; NP_001340498.1

Human GeneID(s): [8100](#)

Non-Human GeneID(s): 21821 (mouse), 305918 (rat)

Important Comments: This antibody is expected to recognise many reported isoforms.

Immunogen

Peptide with sequence C-KKRIDEDDFADEE, from the C Terminus of the protein sequence according to NP_783195.2; NP_006522.2, NP_001340507.1; NP_001340498.1.

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 1:32000.

Western blot: Approx 85-90kDa band observed in lysates of cell lines HepG2 and NIH3T3 and in Human Kidney lysates (calculated MW of 85.3kDa according to Human NP_001340507.1 and 90.4kDa according to NP_001340498.1, and 93.1kDa according to Mouse NP_033402.2 93. and 89.2kDa according to XP_006518873.1). Recommended concentration: 0.3-1µg/ul. Primary incubation 1 hour at room temperature.

IHC: In paraffin embedded Human Kidney shows staining of the brush border in PCT. Recommended concentration: 3µg/ml.

Immunofluorescence: Strong expression of the protein seen in the golgi/ cytoplasm of HepG2 cells. Recommended concentration: 10µg/ml. This antibody has been successfully used in IF on Mouse Olfactory and Respiratory Epithelium cells as described in the following paper: Miyoshi et al, FASEB J. 2009 Oct;23(10):3289-97, PMID: 19470799.

Flow Cytometry: Flow cytometric analysis of HepG2 cells. Recommended concentration: 10µg/ml.

Species Reactivity

Tested: Human, Mouse

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

Specific Reference

This antibody has been successfully used in IF on Mouse:

Miyoshi K, Kasahara K, Miyazaki I, Shimizu S, Taniguchi M, Matsuzaki S, Tohyama M, Asanuma M.

Pericentrin, a centrosomal protein related to microcephalic primordial dwarfism, is required for olfactory cilia assembly in mice.

FASEB J. 2009 Oct;23(10):3289-97.

PMID: 19470799

EB07088 (0.5µg/ml) staining of Human Kidney lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB07088 (0.5µg/ml) staining of HepG2 (A) and NIH3T3 (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB07088 (3µg/ml) staining of paraffin embedded Human Kidney. Microwaved antigen retrieval with Tris/EDTA buffer pH9, HRP-staining.

EB07088 Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and Golgi/cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

EB07088 Flow cytometric analysis of paraformaldehyde fixed HepG2 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.